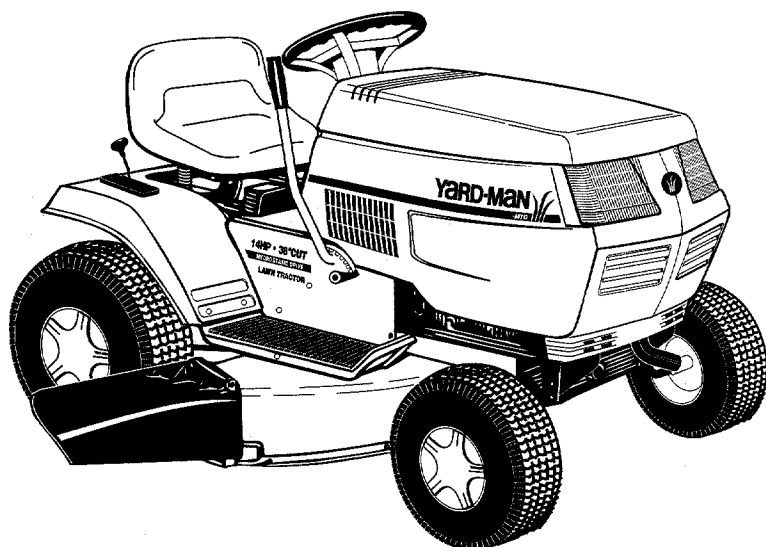




# OPERATOR'S MANUAL

**Model Series  
694  
HYDROSTATIC  
LAWN  
TRACTORS**



## **IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY**

**Warning:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 368022 Cleveland, Ohio 44136-9722.

**MTD PRODUCTS INC. P.O. BOX 368022 CLEVELAND, OHIO 44136-9722**

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FORM NO. 770-8416A  
(9/97)

## SECTION 1: IMPORTANT SAFE OPERATION PRACTICES



**WARNING:** THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL, HEED ITS WARNING.



**WARNING:** The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



**DANGER:** Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

### 1. GENERAL OPERATION

- Read, understand, and follow all instructions in the operator's manual and on the machine before starting. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Only allow responsible individuals familiar with the instructions to operate the machine. Know controls and how to stop the machine quickly.
- Do not put hands or feet under cutting deck or near rotating parts.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade. A small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury to you or a bystander. To help avoid a thrown objects injury, keep children, bystanders and helpers at least 75 feet from the mower while it is in operation. Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects. Stop the blade(s) when crossing gravel drives, walks or roads.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Disengage blade(s) before shifting into reverse and backing up. Always look down and behind before and while backing.
- Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the chute guard in place.
- Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.
- Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set park brake, stop engine and remove key before dismounting.
- Turn off blade(s) when not mowing.
- Stop engine and wait until blade(s) comes to a complete stop before (a) removing grass catcher or unclogging chute, or (b) making any repairs, adjusting or removing any grass or debris.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck. This unit should not be driven up or down a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually on a ramp to load or unload properly.
- Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
- Disengage all attachment clutches, thoroughly depress the brake pedal, and shift into neutral before attempting to start engine.

- Your mower is designed to cut normal residential grass of a height no more than 10". Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Debris may build up on the mower deck or contact the engine exhaust presenting a potential fire hazard.

## 2. SLOPE OPERATION

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

### DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, limbs, etc.
- Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low enough gear so that you will not have to stop or shift while on the slope. Always keep machine in gear when going down slopes to take advantage of engine braking action.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid engagement or braking could cause the front of the machine to lift and rapidly flip over backwards which could cause serious injury.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.

### DO NOT:

- Do not turn on slopes unless necessary; then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

## 3. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the mowing area and in watchful care of an adult other than the operator.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children, even with the blades off. They may fall off and be seriously injured or interfere with the safe machine operation.
- Never allow children under 14 years old to operate the machine. Children 14 years and over should only operate machine under close parental supervision and proper instruction.
- Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure your vision of a child or other hazard.
- Remove key when machine is unattended to prevent unauthorized operation.

## 4. SERVICE

- Use extreme care in handling gasoline and other fuels. They are extremely flammable and the vapors are explosive.
- Use only an approved container.
- Never remove fuel cap or add fuel with the engine running. Allow engine to cool at least two minutes before refueling.
- Replace fuel cap securely and wipe off any spilled fuel before starting the engine as it may cause a fire or explosion.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Never refuel the machine indoors because fuel vapors will accumulate in the area.
- Never store the fuel container or machine inside where there is an open flame or spark, such as a gas hot water heater, space heater or furnace.
- Never run a machine inside a closed area.
- To reduce fire hazard, keep the machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage. Allow machine to cool at least 5 minutes before storing.
- Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.

- Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade for damage (e.g., excessive wear, bent, cracked). Replace with blade which meets original equipment specifications.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
- After striking a foreign object, stop the engine, remove the wire from the spark plug and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. For your safety protection, frequently check components and replace with manufacturer's recommended parts when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing blade(s).
- Check brake operation frequently. Adjust and service as required.
- Muffler, engine and belt guards become hot during operation and can cause a burn. Allow to cool down before touching.
- Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- Observe proper disposal laws and regulations. Improper disposal of fluids and materials can harm the environment and the ecology.
- Prior to disposal, determine the proper method to dispose of waste from your local Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.
- Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them. Properly dispose of the containers immediately following the draining of fluids.
- DO NOT pour oil or other fluids into the ground, down a drain or into a stream, pond, lake or other body of water. Observe Environmental Protection Agency regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, tires and other harmful waste.



**WARNING - YOUR RESPONSIBILITY:** Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

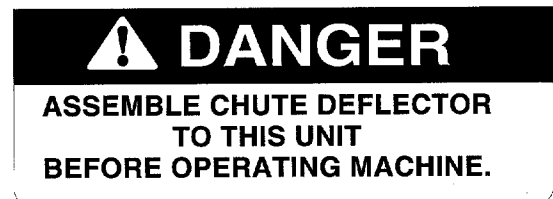
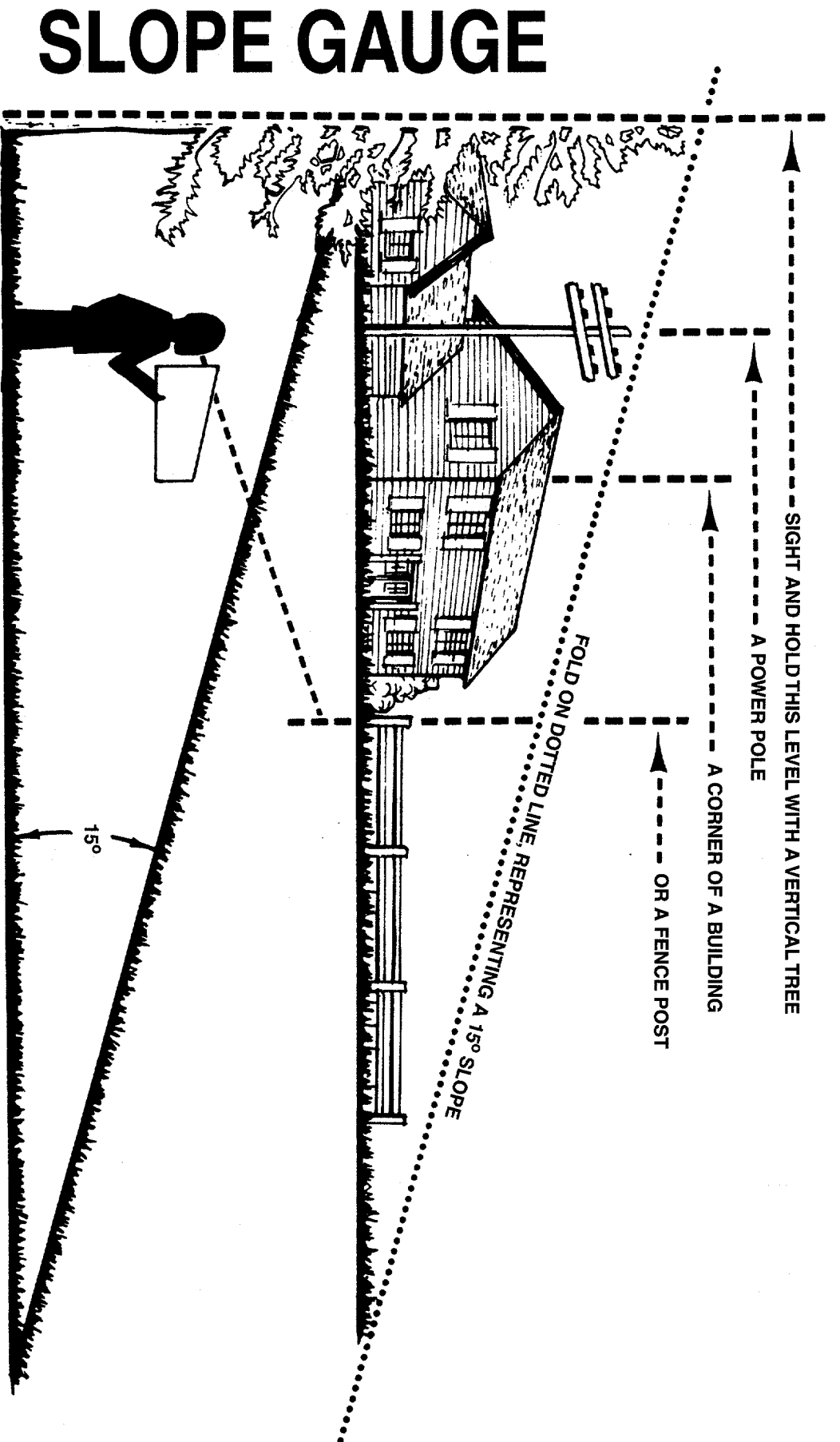


Figure 1 Safety labels found on your unit

USE THIS PAGE AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.



Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.  
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

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## SECTION 2: FINDING YOUR MODEL NUMBER

This Operator's Manual is an important part of your new lawn tractor. It will help you assemble, prepare and maintain your lawn tractor. Please read and understand what it says.

Before you start to prepare your lawn tractor for its first use, please locate the model plate and copy the information from it in this Operator's Manual. The information on the model plate is very important if you need help from your dealer or the MTD customer support department.

- Every lawn tractor has a model plate. You can locate it by pivoting the seat forward and looking under the seat at the seat pivot bracket.
- The model plate will look like Figure 2.

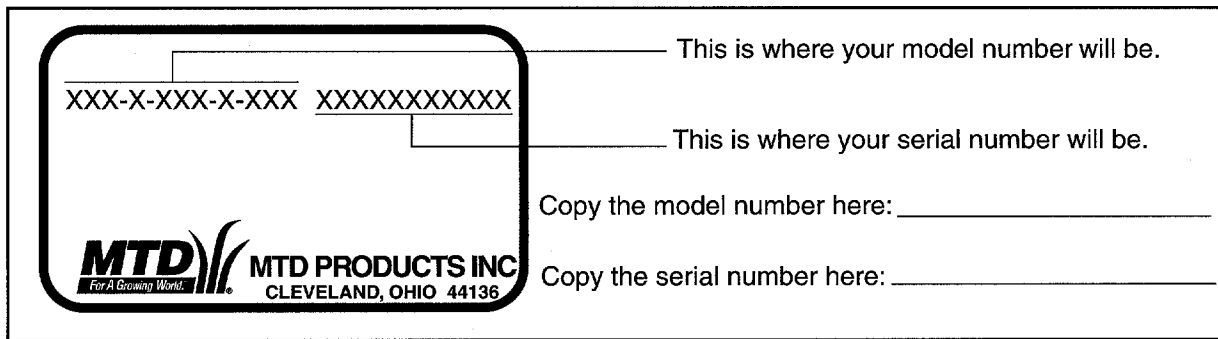


Figure 2

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## SECTION 3: CALLING CUSTOMER SUPPORT

If you are having difficulty assembling this product or if you have any question regarding the controls, operation or maintenance of this unit, please call the Customer Support Department. You can reach them by calling:

**1-800-800-7310**

Before you call, make sure that you have your model and serial numbers ready. By having the model and serial numbers ready, you help the Customer Support Representative give you faster service. To find your unit's model and serial number, see SECTION 2: FINDING YOUR MODEL NUMBER.

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## SECTION 4: UNPACKING

### TO REMOVE UNIT FROM CRATE

1. Remove all screws from the top of the crate using a 1/4" hex head socket or a flat blade screwdriver.
2. To remove ends, grasp top board on the end, and pull towards you in a downward motion. (A hammer may be helpful).
3. Set panel aside to avoid tire punctures.
4. Repeat procedure for each side of the crate.
5. Remove and discard plastic bag which covers unit.
6. Loose parts (may include the owner's guide, steering wheel, optional oil drain sleeve or hose, battery fluid, chute deflector, optional mulching plug, etc.) are on the seat or in a box wrapped in plastic. Carefully cut and remove the plastic wrap. Remove the loose parts.
7. Make certain parking brake and hydrostatic transmission relief valve are released and unit is in neutral. See the controls section of this manual for the location of the parking brake release and the hydrostatic relief valve. Raise the deck and push the unit off the skid.

---

## SECTION 5: ASSEMBLY INSTRUCTIONS

**IMPORTANT:** After assembly, service engine with gasoline, and check oil level as instructed in the separate engine manual packed with your unit.

**NOTE:** Reference to right or left hand side of the unit is observed from the driver's seat, facing forward.

### TOOLS REQUIRED FOR ASSEMBLY

- (1) 1/4" socket wrench or flat blade screwdriver
- (1) 1/2" wrench or socket wrench
- (1) 9/16" wrench or socket wrench
- (2) 7/16" wrenches or socket wrenches

### BATTERY INFORMATION



#### WARNING

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.

- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

**\*Always shield eyes, protect skin and clothing when working near batteries.**



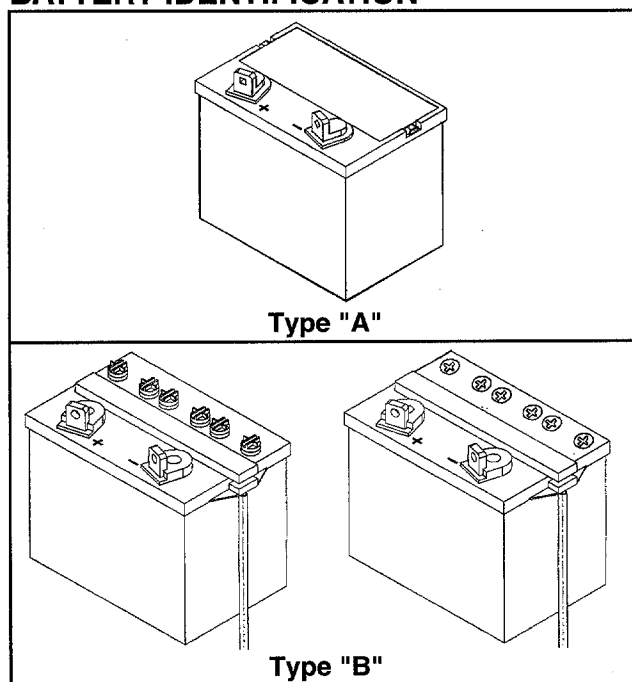
#### DANGER

**Battery contains sulfuric acid. Refer to warning at right.** Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES: Flush with cool water for at least 15 minutes, then get prompt medical attention.

**Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away.** Be sure to charge battery only in well-ventilated areas. Make certain venting path of battery drain tube (if equipped) is always open.

**KEEP BATTERIES  
OUT OF THE REACH OF CHILDREN!**

## BATTERY IDENTIFICATION



Compare the battery in your lawn tractor (located under the seat) with the illustration above. Type "A" batteries are activated and are ready to use. Type "B" batteries must be filled with battery fluid (acid) and charged before they are put into service. Follow the instructions which apply to the battery in your lawn tractor.

## ACTIVATING AND CHARGING THE BATTERY

### (TYPE "B" BATTERY ONLY)

**Do not activate battery (fill with battery acid) until battery is actually placed in service. Be certain to read previous battery warnings before activating the battery.**

1. Pivot the seat pivot bracket forward. Unhook the strap which secures the battery (hook is on rear frame, under fender). Disconnect the positive cable from the positive terminal. Save the hardware for reassembly.
2. Remove the battery from the lawn tractor, paying attention to how the battery is placed in the unit, and how the drain tube (attached to the battery) is routed.
3. Activate the battery as instructed in the "Quick Start" brochure included with the battery fluid.  
**Read instructions carefully.**

**NOTE:** You can continue assembling the lawn tractor while battery is standing for 30 minutes (after filling with acid), and later while you are charging the battery.

**IMPORTANT:** To obtain the maximum life from your battery, it **MUST BE CHARGED** prior to initial use.

**CHARGE THE BATTERY** after the 30 minute standing period. Battery P/N 725-1705C—Charge at 2-3 amps for one hour. Battery P/N 725-1707C and 725-0453F—Charge at 6 amps for one hour.

**NOTE:** If you charge the battery at a lower AMP rate, use a hydrometer to make sure the battery is completely charged. The hydrometer should read 1.260 minimum at an electrolyte temperature of 60-110°F. **DO NOT CHARGE AT MORE THAN 6 AMPS.**

## ATTACHING THE STEERING WHEEL

1. The hardware for attaching the steering wheel has been packed inside the steering wheel. Remove the steering wheel insert and the shipping cap and remove the hardware. Discard the shipping cap. See Figure 3.
  2. Remove the steering bellow from the lift lever on the right hand side of lawn tractor. Place steering bellow over the steering shaft extending through the dash.
- NOTE:** If the openings on each end of the steering bellow are two different sizes, the smaller end goes down against the dash of the lawn tractor.
3. **With the wheels of the tractor pointing straight forward**, place the steering wheel over the steering shaft, positioning steering wheel as desired.
  4. Place the washer with the cupped side down over the steering shaft. Secure with hex lock bolt.
  5. Snap the steering insert over the four spokes of the steering wheel.

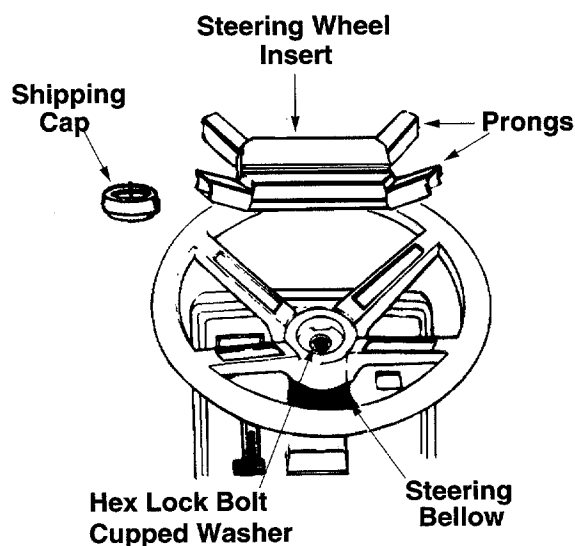
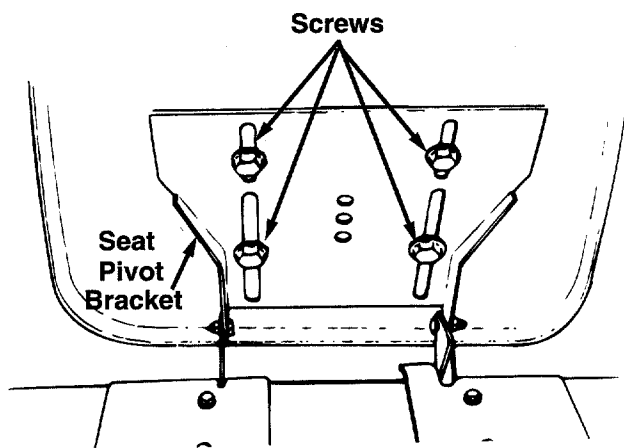


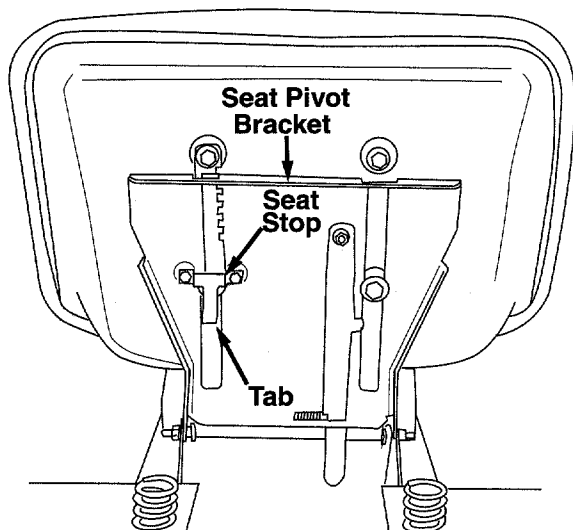
Figure 3





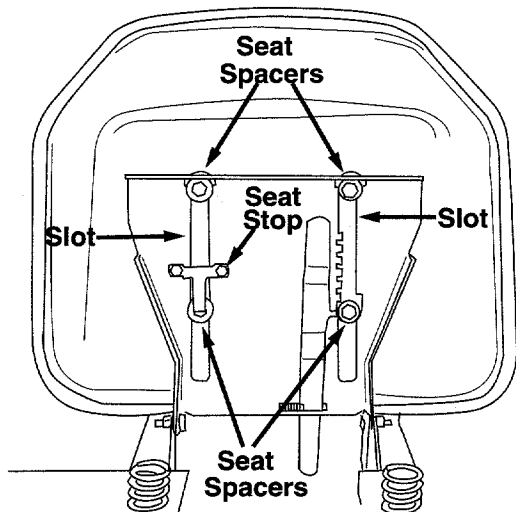
**Manual Adjustment Seat**

Figure 4



**Quick Adjustment Seat**

Figure 5



**Quick Adjustment Seat**

Figure 6

## ATTACHING THE SEAT

There are two different seat pivot brackets used on this series of lawn tractor, a manual adjustment seat or a quick adjustment seat. See figures 4 and 5 to identify which seat is on your unit. Follow the instructions which apply to your lawn tractor.

### MANUAL ADJUSTMENT SEAT

Remove the four screws which secure the seat to the seat pivot bracket. Turn the seat around and place in position against the seat pivot bracket, lining up the slotted holes in the pivot bracket with the holes in the seat. Select desired position for the seat, and secure with the four screws. See Figure 4.

**NOTE:** Your seat may have been shipped in a box. Remove the four screws from the bottom of seat and place seat in position against the seat pivot bracket. Follow the directions above to attach the seat.

### QUICK ADJUSTMENT SEAT

Pull out tab on seat stop and hold open while sliding seat out of seat pivot bracket. See Figure 5. Turn the seat around and line up plastic seat spacers with the slots in seat pivot bracket. Slide seat in until front seat spacer engages the seat stop. See Figure 6. To adjust the seat refer to the adjustment section in this manual.

**NOTE:** If your seat was shipped in a box, line up plastic seat spacers with the slots in seat pivot bracket and slide seat in until front seat spacer engages seat stop.



**WARNING:** Before operating your unit, stand behind quick adjustment seat and pull back on seat, making sure seat is engaged in seat stop.

## ATTACHING THE CHUTE DEFLECTOR

The chute deflector must be attached to the right side of the deck so that it covers the chute opening.



**WARNING:** Do not operate your unit unless the chute deflector has been properly installed.

1. Make certain deck is raised to its highest position (lift lever pulled all the way back).

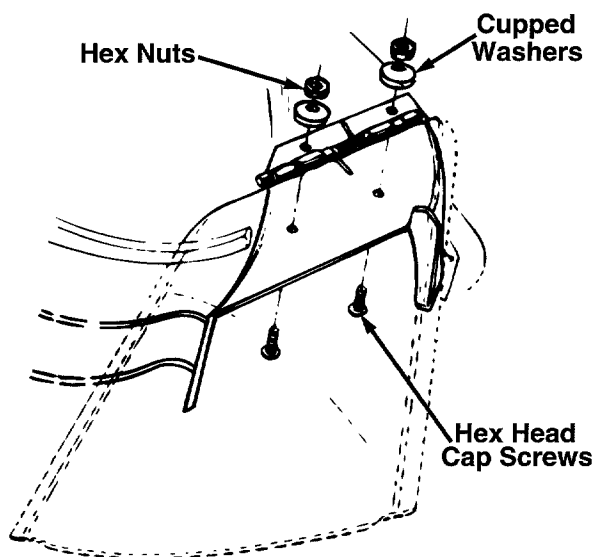


Figure 7

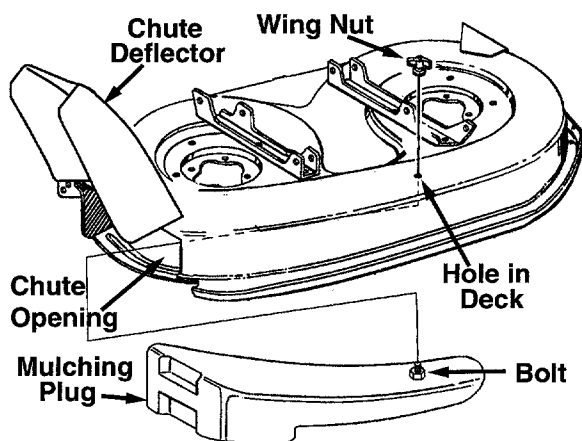


Figure 8

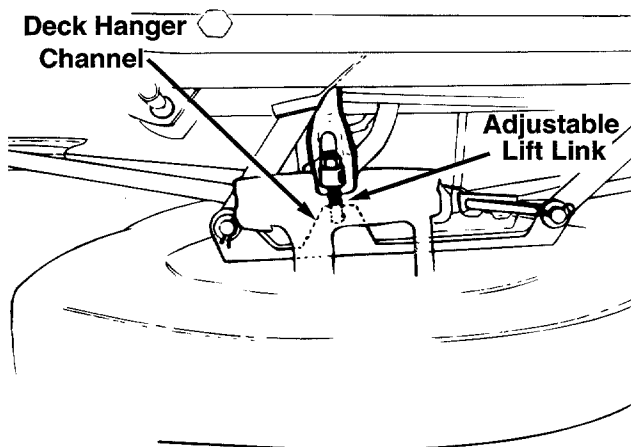


Figure 9

**NOTE:** Your mowing deck may be equipped with an optional mulching plug. Remove the mulching plug by removing the wing nut on top of the deck. Grasp the mulching plug and pull out of the deck.

2. Remove the hex head cap screws, cupped washers and hex nuts which are attached to the deck next to the chute opening.
3. Place the chute deflector in position as shown in Figure 7. Secure with hardware just removed. Cupped sides of washers go against the chute deflector.

## INSTALLING THE MULCHING PLUG

1. Remove the mulching plug from the box packed with your lawn tractor (If not already removed from the deck).
2. Remove the wing nut from the bolt on the mulching plug.
3. Lift up the chute deflector and insert the mulching plug through chute opening. See Figure 8.
4. Line up the bolt on the mulching plug with the hole in the top of the deck. Push up on the end of the mulching plug and secure with the wing nut.

## TIRE PRESSURE

The tires on your unit may be over-inflated for shipping purposes. Reduce the tire pressure before operating the unit. Recommended operating tire pressure is approximately 10 p.s.i. Check sidewall of tire for maximum p.s.i.



**WARNING:** Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

## LEVELING THE DECK

With unit on hard, level surface, place the blades in a straight line, and measure the distance from the outside edge of the blade tips to the ground. If adjustment is needed, proceed as follows.

1. Remove the hairpin clip and flat washer from the bottom of the adjustable lift link on the left side of the deck. (Hairpin clip and flat washer are on the inside of the lift link.)
2. Pull the adjustable lift link out of the deck hanger channel. See Figure 9. Turn the adjustable lift link up or down as necessary to level the deck. Usually only one or two turns are needed.

3. Insert the end of the adjustable lift link into the hole in the deck hanger channel. Recheck the adjustment. Readjust if necessary.
4. When deck is level, secure end of adjustable lift link with flat washer and hairpin clip.

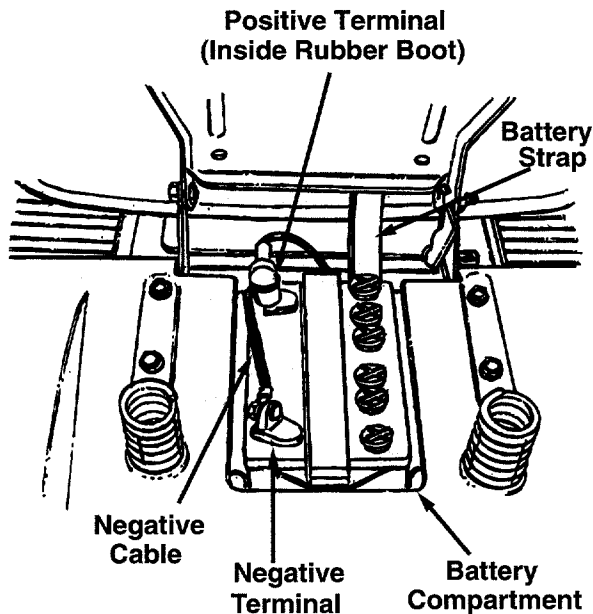


Figure 10

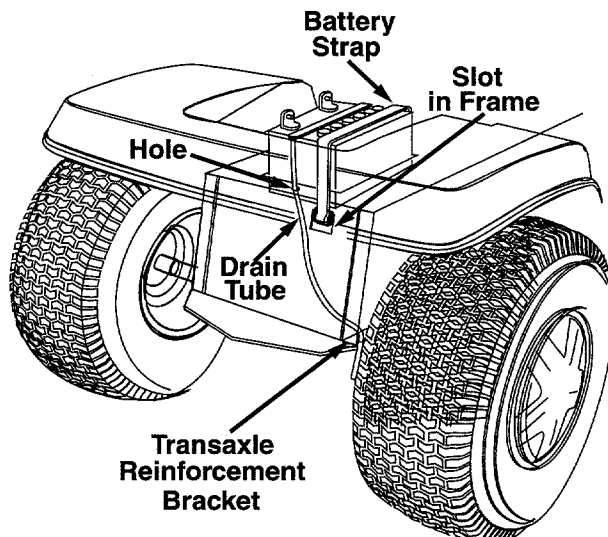


Figure 11

## INSTALLING THE BATTERY (TYPE "A" BATTERY)

**NOTE:** If battery is put into service after date shown on top of battery, charge for minimum of 1 hour at 6-10 amps

1. Lift the seat.
2. Remove the plastic cover from the negative terminal.
3. Remove the hex bolt and nut from the negative (black) cable. Attach negative cable to the negative terminal with this bolt and nut.

## INSTALLING THE BATTERY (TYPE "B" BATTERY)

1. Lift the seat.
2. Make certain both the negative (black) cable and the positive (red) cable are routed up through the battery compartment as shown in Figure 10.
3. Replace the battery into the battery compartment in the same position as it was before (positive terminal is toward the front of the unit).
4. Attach the positive (red) cable to the positive terminal of the battery. Secure with hex bolt and nut previously removed. Slide rubber boot down over the positive terminal.
5. Remove the hex bolt and nut from the negative (black) cable. Attach negative cable to the negative terminal with this bolt and nut.
6. Secure battery by hooking battery strap into slot in rear frame, under the fender. See Figure 11.
7. Insert the drain tube down through the hole in the battery compartment and the hole in the transaxle reinforcement bracket located on the **right** side of the unit. See Figure 11. Be certain drain tube is routed away from the wheel rim.
8. Trim excess end of drain tube if necessary (about 4" should extend past the bracket or cable tie).

## SECTION 6: CONTROLS

### IGNITION SWITCH

The ignition switch is located on the dashboard. The engine is started by turning the key to the START position. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position. See Figure 12.



**WARNING:** Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

### THROTTLE CONTROL

The throttle control is located on the dashboard and is used to regulate the engine speed. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. See Figure 12.

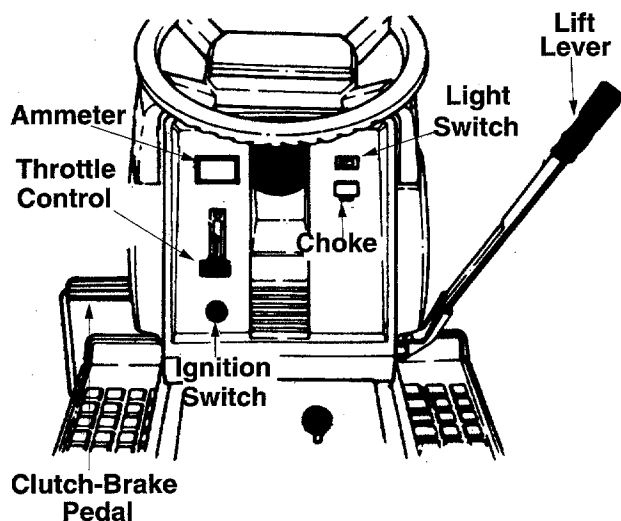


Figure 12

### CHOKE CONTROL

The choke control is located on the dashboard and is operated manually. Details for the choke operation are covered in the separate engine manual packed with your unit. See Figure 12.

### LIGHT SWITCH

The head lamps are operated by pushing the light switch located on the dashboard. The head lamps will only operate when the engine is running. See Figure 12.

### AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter will register on the discharging side with starting the engine. It should register on the opposite side (charging) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling, the ammeter will not show a charge. See Figure 12.

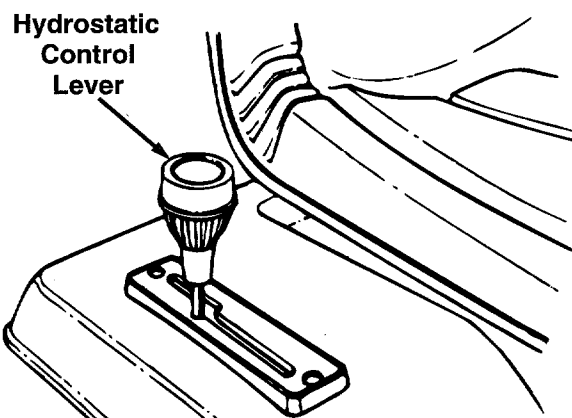


Figure 13

### HYDROSTATIC CONTROL LEVER

The hydrostatic control lever is located on top of the fender on the right side of the tractor. This single control lever, connected to the hydrostatic transmission, controls both the speed and direction of the tractor. Infinite speed control is achieved by moving the control lever forward or backward. The farther forward or backward you move the control lever, the faster you will travel. Pulling the control lever into neutral (N) area will stop the tractor. See Figure 13.

### CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the left side of the tractor. See Figure 12. Depressing the pedal returns the drive unit to neutral (N) and applies the brake.

**NOTE:** The clutch-brake pedal must be depressed to start the engine.

### PARKING BRAKE

To set the parking brake, depress the clutch-brake pedal, pull up the parking brake knob and release the clutch-brake pedal. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal while pushing down on the parking brake knob. See Figure 14.

**NOTE:** The parking brake must be set if the operator leaves the seat with the engine running.

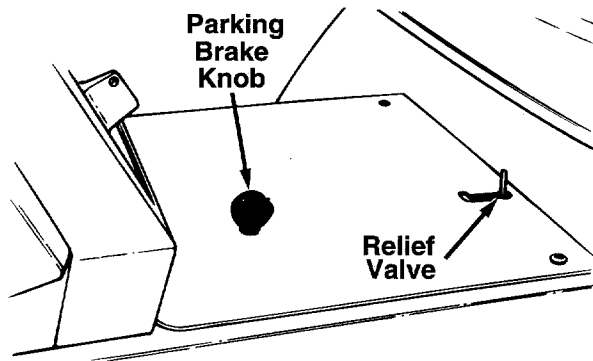


Figure 14

## RELIEF VALVE

A hydrostatic relief valve is provided so the unit can be moved without the engine running. The lever which operates the relief valve is located on the console. See Figure 14.

To operate the relief valve, place the hydrostatic control lever in neutral, release the parking brake, push the lever forward and to the right to lock. Be certain to release the lever by pushing it to the left before operating the engine.

## INDICATOR LIGHTS

If your unit is equipped with indicator lights, two or three indicator lights are located in the dash panel. If a light illuminates when attempting to start the unit, proceed as follows.

**CLUTCH**—Depress the clutch pedal.

**PTO**—Place lift lever in the **BLADES STOP** position.

**OIL**—Check the crankcase oil level, and add oil as required.

## CUTTING CONTROLS

### A. LIFT LEVER

The lift lever is used to raise and lower the cutting deck and to engage and disengage the blades. Pulling it all the way back and locking it disengages the blades.

**NOTE:** The lift lever **must** be in the **BLADES STOP** position when starting the engine, when shifting into reverse and if the operator leaves the seat. See Figure 15.

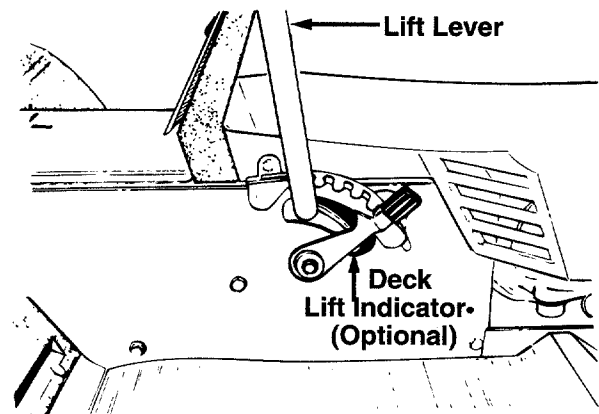


Figure 15

### B. DECK LIFT INDICATOR (Optional Equipment)

The deck lift indicator (if so equipped) marks the position being used for the lift lever. Select the lift lever position desired, press the indicator lever outward, move it to the position immediately below the lift lever and release the indicator lever. See Figure 15.

### C. SETTING THE CUTTING HEIGHT

1. Select the position for the lift lever which gives the desired cutting height. Move the deck lift indicator (if so equipped) so that the lift lever can be returned to the same position after it is raised.
2. Move the deck wheels (if so equipped) to the hole location so the wheels are 1/4 inch above the ground. All wheels must be placed in the same relative position.

## SECTION 7: OPERATION



### WARNING

AVOID SERIOUS INJURY OR DEATH

- GO UP AND DOWN SLOPES, NOT ACROSS.
- AVOID SUDDEN TURNS.
- DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP.
- IF MACHINE STOPS GOING UPHILL, STOP BLADE(S) AND BACK DOWNHILL SLOWLY.
- DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND.
- NEVER CARRY CHILDREN.
- LOOK DOWN AND BEHIND BEFORE AND WHILE BACKING.
- KEEP SAFETY DEVICES (GUARDS, SHIELDS, AND SWITCHES) IN PLACE AND WORKING.
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE(S).
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S).
- BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, ENGAGE BRAKE LOCK, SHUT ENGINE OFF AND REMOVE KEY.

READ OPERATOR'S MANUAL



**WARNING:** Do not operate the tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.

1. Place the lift lever in the BLADES STOP position.
2. Depress the clutch-brake pedal and set the parking brake.
3. Place the hydrostatic control lever in the NEUTRAL (N) position.
4. Set the throttle control in the FAST position.
5. Pull out the choke control (a warm engine may not require choking).
6. Turn the ignition key to the right to the START position. After the engine starts, release the key. It will return to the ON position.

**NOTE:** Protect the starter's life by using short starting cycles of several seconds. Cranking more than 15 seconds per minute can damage the starter motor.

7. Push choke knob in gradually. Move the throttle control to desired engine speed.

### STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position. Remove the key to prevent accidental starting.

**IMPORTANT:** If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

**NOTE:** If any problems are encountered, refer to the Trouble Shooting Guide on page 23.

### GAS AND OIL FILL-UP

**Check the oil level and add if necessary. Service the engine with gasoline as instructed in the separate engine manual packed with your tractor. Read instructions carefully.**

**IMPORTANT:** Your tractor is shipped with oil; however you **must** check the oil level before operating. Be careful not to overfill.

### STARTING THE ENGINE

**IMPORTANT:** This unit is equipped with a **safety interlock system** for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the lift lever is in the BLADES STOP position. In addition, the lift lever must be in the BLADES STOP position when the unit is put into reverse or the engine will shut off. If the operator leaves the seat with the lift lever engaged and/or without setting the parking brake, the engine will shut off.

### OPERATING THE LAWN TRACTOR

1. Move throttle control to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Depress the clutch-brake pedal while pushing down on the parking brake knob so the parking brake is released, and then release the clutch-brake pedal.
3. Place the hydrostatic control lever in either the FORWARD or REVERSE position. The farther forward you move the hydrostatic control lever, the faster you will travel.



**WARNING:** Look to the rear before backing up.

To stop the lawn tractor, pull the hydrostatic control lever into NEUTRAL (N) or depress the clutch-brake pedal.

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn tractor or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.



**WARNING:** Before leaving the operator's position for any reason, disengage the blades, place the hydrostatic control lever in neutral, engage the parking brake, shut engine off and remove the key.

When stopping the unit to empty a grass bag, etc., follow the instructions above. This procedure will also eliminate "browning" the grass, which is caused by hot exhaust gases from a running engine.

## GRASS COLLECTOR AVAILABLE

Grass Collector Model 190-063-000 is available as optional equipment for lawn tractors with 38" and 42" decks. Grass Collector Model 190-103-000 is available for lawn tractors with 46" decks.



**WARNING:** The mower should not be operated without the entire grass catcher or chute deflector in place.

**NOTE:** Under normal usage bag material is subject to wear, and should be checked periodically. Be sure to use only factory authorized replacement bag.

## SECTION 8: ADJUSTMENTS



**WARNING:** Disconnect the spark plug wires and ground against the engine before performing any adjustments, repairs or maintenance.

### MANUAL ADJUSTMENT SEAT

To adjust the position of the seat, loosen the four screws on the bottom of the seat. See Figure 4. Slide the seat forward or backward as desired. Retighten the four screws.

### QUICK ADJUSTMENT SEAT

To adjust the position of the seat, move the seat adjustment lever (located under the seat) to the left and slide the seat forward or backwards. See Figure 16. Make sure seat is locked into one of the six adjustment positions before operating the lawn tractor.

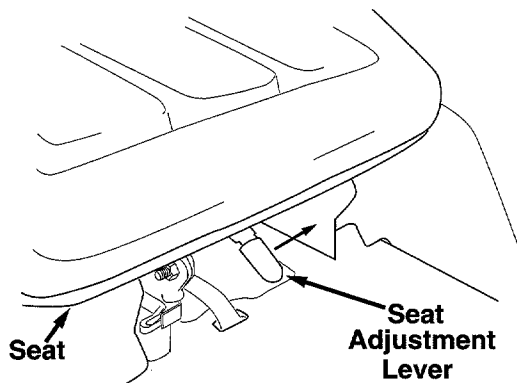


Figure 16

### HYDROSTATIC NEUTRAL CONTROL ADJUSTMENT

The hydrostatic transmission control is in correct adjustment when the tractor does not move with the engine running, the clutch engaged and the hydrostatic control lever in the neutral position. If adjustment is necessary, follow these steps:

1. Raise both rear wheels off the ground by placing blocks under the rear frame.
2. Remove the transmission panel by removing the parking brake knob, rubber boot on hydro relief valve and truss machine screws.
3. Loosen the hex jam nut on the speed selector adjusting rod. See Figure 17.

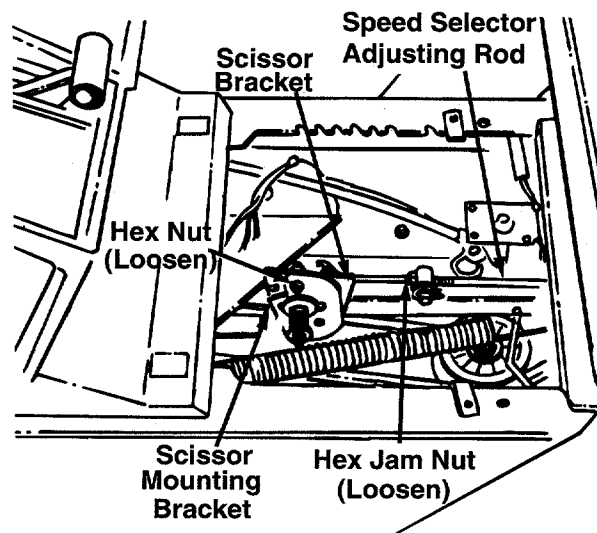


Figure 17

4. Loosen the hex nut on the scissor mounting bracket. See Figure 17.
5. Start the engine and run at full throttle.
6. Move the hydrostatic control lever until you find neutral (rear wheels do not rotate in either direction).
7. Depress the clutch-brake pedal until the scissor brackets come together.
8. Shut off the engine.
9. Tighten the hex nut on the scissor mounting bracket
10. Thread the speed selector rod in or out of the ferrule until the hydrostatic control lever lines up in the neutral position on the speed control index bracket.
11. Tighten hex jam nut against the ferrule.
12. Replace the transmission panel, parking brake knob and rubber boot on relief valve.
13. Remove the blocks from under the frame and test the operation of the tractor.

## DECK LEVELING ADJUSTMENT

If an uneven cut is obtained, the deck may be leveled by following instructions in the Assembly section.

## CUTTING DECK ENGAGEMENT ADJUSTMENT

The cutting deck engagement may be adjusted to make certain deck is disengaged when lift lever is in the BLADES STOP position. Correct adjustment as follows.

With the engine off, place the lift lever in the highest cutting position (first position). Remove the cotter pin and flat washer which secure the disengagement rod to the stabilizer shaft assembly. See Figure 18. Shorten the rod by threading it in, until the ferrule is against the back of the slot in the lift shaft assembly, and the rod lines up with the hole in the stabilizer shaft. For more belt tension the disengagement rod must be lengthened. To decrease belt tension the disengagement rod must be shortened.

Check the adjustment by placing the lift lever in the BLADES STOP position. The deck should move up and forward, allowing the belt to become loose. Start and test for disengagement. Repeat procedure as necessary.

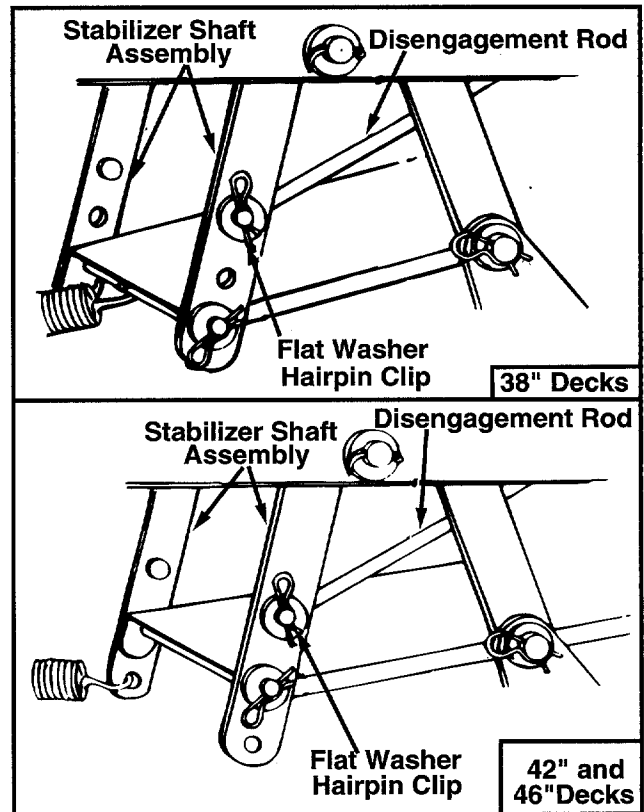


Figure 18

## BRAKE ADJUSTMENT (See Figure 19)

The brake is located by the right rear wheel inside the frame. The brake has been set at the factory to the proper clearance. During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.



**WARNING:** Do not have the engine running when you adjust the brake.

To adjust the brake, adjust the nut so the brake starts to engage when the brake lever is 1/4" to 5/16" away from the axle housing.

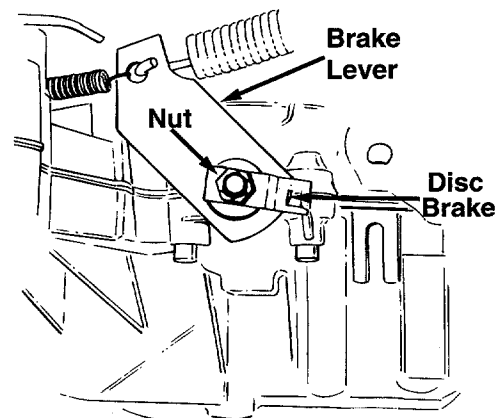


Figure 19



## CARBURETOR ADJUSTMENTS



**WARNING:** If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load. Refer to separate engine manual for carburetor adjustment information.

**NOTE:** A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor.

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## SECTION 9: LUBRICATION



**WARNING:** Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn tractor.

### STEERING GEARS

Lubricate teeth of steering gears with automotive multi-purpose grease after every 25 hours of operation or once a season. See Figure 20.

### STEERING SHAFT

Lubricate steering shaft at least once a season with light oil.

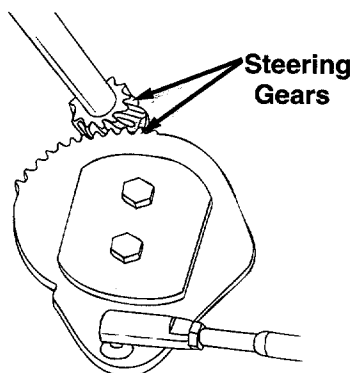


Figure 20

## HYDROSTATIC TRANSMISSION

The hydrostatic transmission is filled at the factory and does not require checking. If repairs are needed, contact your local service dealer. (Hydrostatic transmission contains approximately 2.5 quarts of SAE 20W50 oil.)

### LINKAGE

Once a season lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

### WHEELS

The front wheels may be provided with optional grease fittings. The rear wheels must be removed from the axle for lubrication. Lubricate at least once a season with automotive multi-purpose grease.

### PIVOT POINTS

Lubricate all pivot points with light oil at least once a season.

### BALL JOINTS

The ball joints and drag link ends are permanently lubricated.

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## SECTION 10: MAINTENANCE



**WARNING:** Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

### TROUBLE SHOOTING

Refer to the chart on page 23 for trouble shooting engine problems.

### HYDROSTATIC TRANSMISSION COOLING

The hydrostatic transmission is cooled by the oil, fan and fins. If the hydrostatic transmission runs hot, check to see if the fan is in operating condition, the oil level is correct and the fins are clean.

**NOTE:** DO NOT use high pressure water spray or steam to clean the hydrostatic transmission.

## ENGINE

**Refer to the separate engine manual for engine maintenance instructions.**

Service **air cleaner** every 10 hours under normal conditions. Clean every few hours under extremely dusty conditions. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug(s)** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

## FUEL FILTER

Your unit is equipped with a replaceable in-line fuel filter. Replace filter whenever contamination or discoloration is noticed. Order replacement filter through your authorized engine service dealer.

## CLEANING ENGINE AND DECK

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the deck after each mowing.

## Optional Oil Drain Sleeve

Your lawn tractor may have a plastic oil drain sleeve packed with the loose parts for your convenience in draining oil from the crankcase. To drain the oil, snap small end of oil drain sleeve onto oil sump. See Figure 21. Remove drain plug and drain oil into a suitable container.

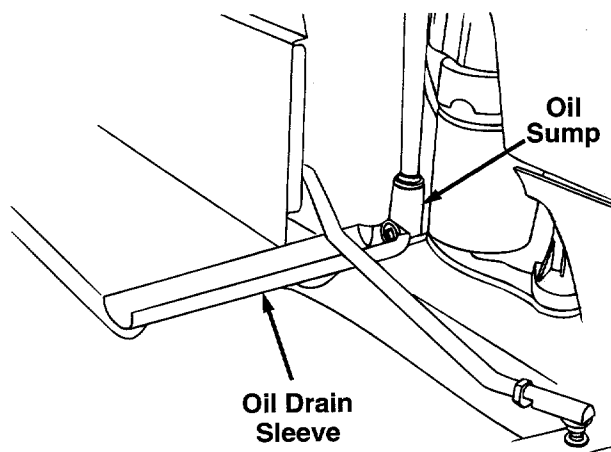


Figure 21

## Optional Oil Drain Valve

Your lawn tractor may have a valve installed on the engine for draining oil from the crankcase. See Figure 22. To drain the oil, insert the 12" hose (shipped loose with your unit) over the end of the valve. Place the other end in a suitable container. Push in black cap, rotate counterclockwise and pull valve open. When oil is completely drained, push top of valve in and rotate clockwise to close.

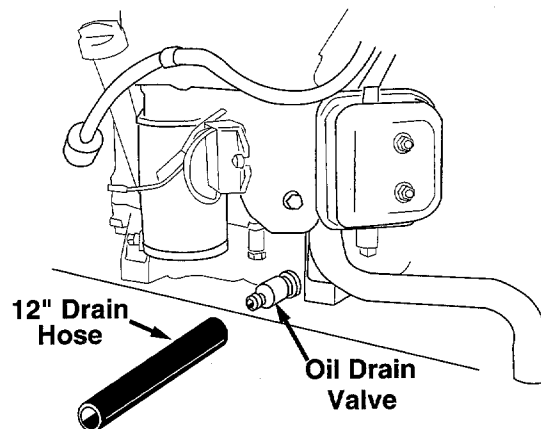


Figure 22

## WHEEL ADJUSTMENT (Units with Adjustable Tie Rod)

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor. The front wheels should toe-in between 1/16- 5/16 inch.

To adjust the toe-in, follow these steps.

1. Remove the hex nut and lock washer, and drop the end of the tie rod from the axle bracket. See Figure 23.
2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.

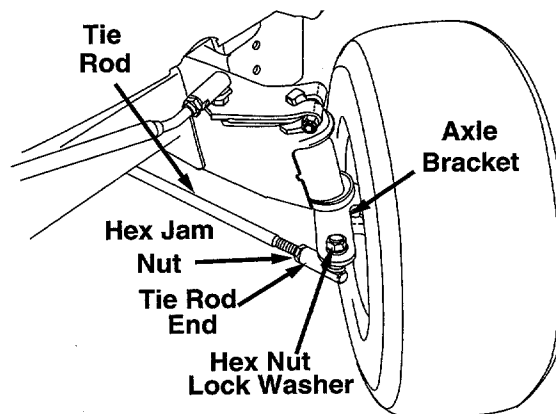


Figure 23

Dimension "B" should be approximately 1/16"-5/16" less than Dimension "A." See Figure 24. To increase Dimension "B," screw tie rod into tie rod end. To decrease Dimension "B," unscrew tie rod from tie rod end. Reassemble tie rod. Check dimensions. Readjust if necessary.

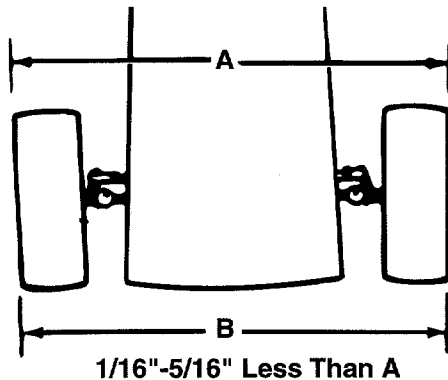


Figure 24

## CUTTING BLADES

### A. Removal for Sharpening or Replacement



**WARNING:** Be sure to disconnect and ground the spark plug wire(s) and remove ignition key before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades.

1. Remove the hex flange nut which holds the blade to the blade spindle.
2. Remove the blade from the spindle.

### B. Sharpening

Remove the cutting blades by following the directions of the preceding section.

When sharpening the blades, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

### C. Reassembly

When replacing blades, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position. Carefully align "star" on blade with "star" on spindle. Secure with hex flange nut.

## Blade Mounting Torque

Hex Flange Nut: 840 in. lb. min., 1080 in. lb. max.

To ensure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

## BATTERY CARE AND MAINTENANCE (TYPE "A" BATTERY)

Type "A" batteries are sealed and are maintenance free.

## BATTERY CARE AND MAINTENANCE (TYPE "B" BATTERY)

### CHECK FLUID LEVEL

Check fluid level inside each cell of the battery every two weeks and before and after charging. Always keep level between maximum and minimum fill level.

**Add only distilled water. Never add additional acid** or any other chemicals to the battery after initial activation.

**NOTE:** After operating the lawn tractor for a long period of time, check the fluid level in the battery as it can overheat and lose fluid.

### CHARGING THE BATTERY (ALL BATTERIES)

The engine is equipped with an alternator which charges battery when tractor is operated. Under normal conditions, the battery only needs to be charged before, during and after off-season storage. Follow the instructions under "Off-Season Storage."

**To charge the battery:** Battery P/N 725-1705C—Charge at 2-3 amps for one hour. Battery P/N 725-1707C and 725-0453F—Charge at 6 amps for one hour.

## REMOVING / INSTALLING / JUMP STARTING



**WARNING:** When removing or installing the battery, follow these instructions to prevent the screwdriver from shorting against the frame.

**Removing the Battery:** Disconnect negative cable first, then positive cable.

**Installing the Battery:** Connect positive cable first, then negative cable.

### Jump Starting

1. First, connect end of one jumper cable to the positive terminal of the good battery, then the other end to the positive terminal of the dead battery.
2. Connect the other jumper cable to the negative terminal of the good battery, then to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



**WARNING:** Failure to use this procedure could cause sparking, and the gas in either battery could explode.

### CLEAN THE BATTERY

Clean the battery by removing it from the unit and washing with a baking soda and water solution. If necessary, scrape the battery terminals with a wire brush to remove deposits. Coat terminals and exposed wiring with grease or petroleum jelly to prevent corrosion.

### BATTERY FAILURES

Some common causes for battery failure are: incorrect initial activation, lack of water, adding chemicals other than water after initial activation, undercharging, overcharging, corroded connections, freezing. **These failures do not constitute warranty.**

### TIRES

Recommended operating tire pressure is approximately 10 p.s.i. Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

When installing a tire to the rim, be certain rim is clean and free of rust. Lubricate both the tire and rim generously. Never inflate to over 30 p.s.i. to seat beads.



**WARNING:** Excessive pressure (over 30 p.s.i.) when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.

### BELT REMOVAL AND REPLACEMENT



**WARNING:** Disconnect the spark plug wire(s) and ground it against the engine. Block the wheels of the unit.

**NOTE:** Figure 25 and 27 are shown with the unit tipped up for clarity. It is not necessary to tip the unit to remove the belts.

However, if tipping the unit is desired, remove the battery from the unit. To prevent gasoline leakage, drain the gasoline, or remove the fuel tank cap, place a thin piece of plastic over the neck of the fuel tank and screw on the cap. Be certain to remove the plastic when finished changing the belts. Block unit securely.

#### DECK BELT (38" and 42" DECKS)

1. Place the lift lever in the engaged (all the way forward) position.

2. Disconnect the spring which is attached to a bracket on the transaxle, inside the right rear wheel. Use a spring puller or other suitable tool.

**NOTE:** When reassembling, make certain belt keeper pins are assembled in the same locations from which they were removed. See Figure 25.

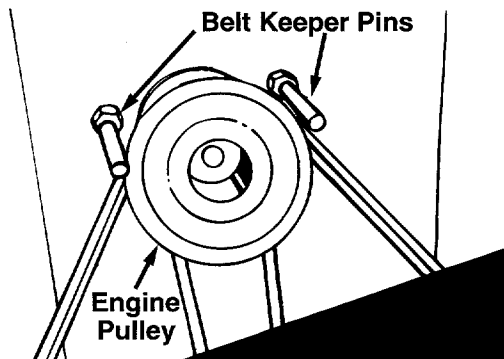


Figure 25

3. Place the lift lever in the BLADES STOP position.
4. Remove the belt keeper pins from the lower frame. See Figure 25.
5. Unhook the deck belt from the engine pulley.
6. Place the lift lever in the engaged (all the way forward) position.
7. Disconnect the stabilizer plate from the stabilizer shaft assembly by removing the hairpin clips and flat washers and sliding out the rod. Refer to Figure 18.
8. Disconnect the six deck links by removing the hairpin clips and flat washers.
9. Place the lift lever in the BLADES STOP position.
10. Slide the deck from beneath the lawn tractor.

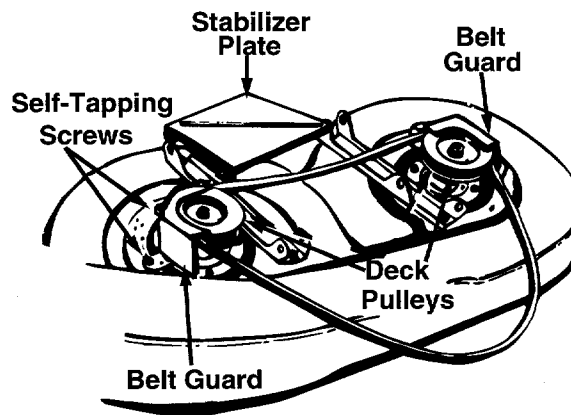


Figure 26

11. Remove the belt guards at each deck pulley by removing the self-tapping screws. See Figure 26.

12. Remove and replace the belt, reassemble following the instructions in reverse order.

#### DECK BELTS (46" DECK)

1. Place the lift lever in the engaged (all the way forward) position.
2. Disconnect the spring which is attached to a bracket on the transaxle, inside the right rear wheel. Use a spring puller or other suitable tool.

**NOTE:** When reassembling, make certain belt keeper pins are assembled in the same locations from which they were removed. See Figure 25.

3. Place the lift lever in the BLADES STOP position.
4. Remove the belt keeper pins from the lower frame. See Figure 25.
5. Unhook the deck belt from the engine pulley.
6. Place the lift lever in the engaged (all the way forward) position.
7. Disconnect the stabilizer plate from the stabilizer shaft assembly by removing the hairpin clips and flat washers and sliding out the rod. Refer to Figure 18.
8. Disconnect the six deck links by removing the hairpin clips and flat washers.
9. Place the lift lever in the BLADES STOP position.
10. Slide the deck from beneath the lawn tractor.
11. Remove the top deck drive belt by lifting up on the stabilizer plate, and slipping belt off the pulley.
12. Remove the belt cover at the two outside deck pulleys, by removing the self-tapping screws.
13. Release the tension on the spring loaded idler by pushing the idler toward the rear of the deck.
14. Remove the belt from around the idler pulleys, and remove from the three deck pulleys.
15. Reassemble new belts, following instructions in reverse order.

#### DRIVE BELT (See Figure 27)

1. Depress the clutch pedal and set the parking brake.
2. Remove the deck from the lawn tractor.
3. Raise and block the front wheels of the lawn tractor so you can work under it.
4. Remove the transmission panel by removing the parking brake knob, relief valve rubber boot and truss machine screws.
5. Raise the seat. Disconnect the battery cables. Remove the battery from the unit.

6. Disconnect the idler pulley spring which is attached to a bracket on the frame, inside the left rear wheel. Use a spring puller or other suitable tool.
7. Remove the three self-tapping screws from the cooling fan. Remove the fan.
8. Remove the center bolt, lock washer and flat washer, and let the engine pulley drop down so the belt is past the belt guards.
9. Roll the belt off of top sheave of engine pulley, onto the pulley hub.
10. Remove the belt from the transmission pulley and engine pulley, and remove from the unit.
11. Reassemble using a new belt, following instructions in reverse order.

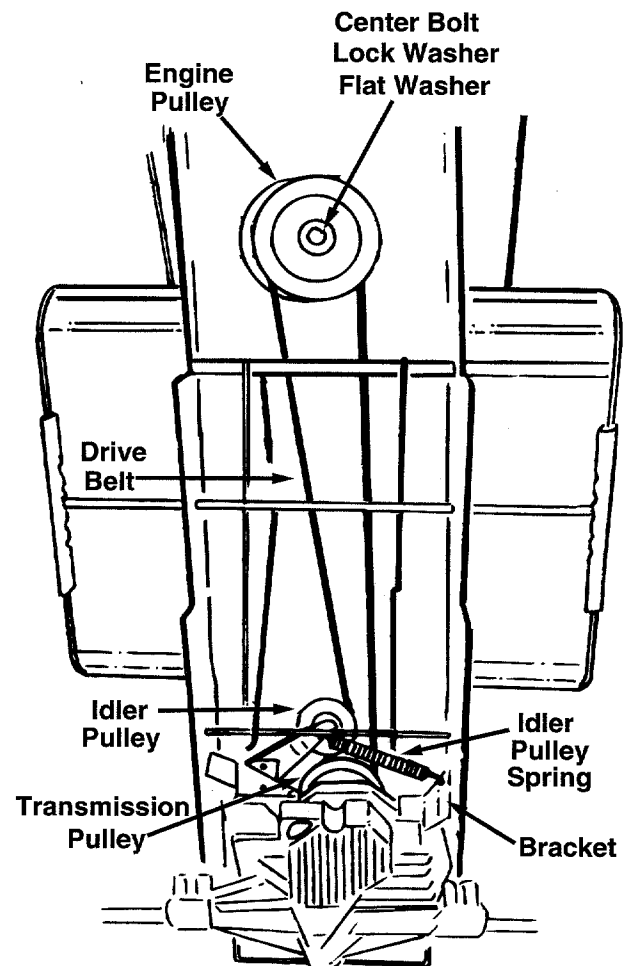


Figure 27

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## SECTION 11: OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. **Charge battery fully.** The battery loses some of its charge each day when the unit is not used. NEVER

store battery without a full charge. Recharge battery before returning to service or every two months, whichever occurs first.

5. When storing unit for extended periods, disconnect battery cables. Removing battery from unit is recommended.
6. Store unit in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.

**NOTE:** When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.

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## SECTION 12: OPTIONAL EQUIPMENT

Description	Model No.
40" Two Stage Snow Thrower	190-621-000
42" Dozer Blade	190-620-000
Mulching Kit for 38"/42" Deck	190-112-000
Mulching Kit for 46" Deck	190-118-000
Twin Bag Grass Collector for 38" and 42" Side Discharge Decks	190-063-000
Twin Bag Grass Collector for 46" Side Discharge Decks	190-103-000
Front Counterweight	190-745-000
Tire Chains—	18 x 8.5 190-754-000
	18 x 9.5 190-657-000
	20 x 8 190-658-000
	20 x 10 190-915-000
31 Lb. Wheel Weights	190-215-000
Gang Reel (Set of three)	45-0195*
38" Lawn Sweeper	45-0222*
Heavy Duty Lawn Roller	45-0179*
Heavy Duty Dump Cart	45-0171*
Tine De-Thatcher	45-0186*

At the time of manufacture of lawn tractor, the optional equipment listed is available.

**NOTE:** These lawn tractors are not designed for ground-engaging equipment (tillers, plows, etc).

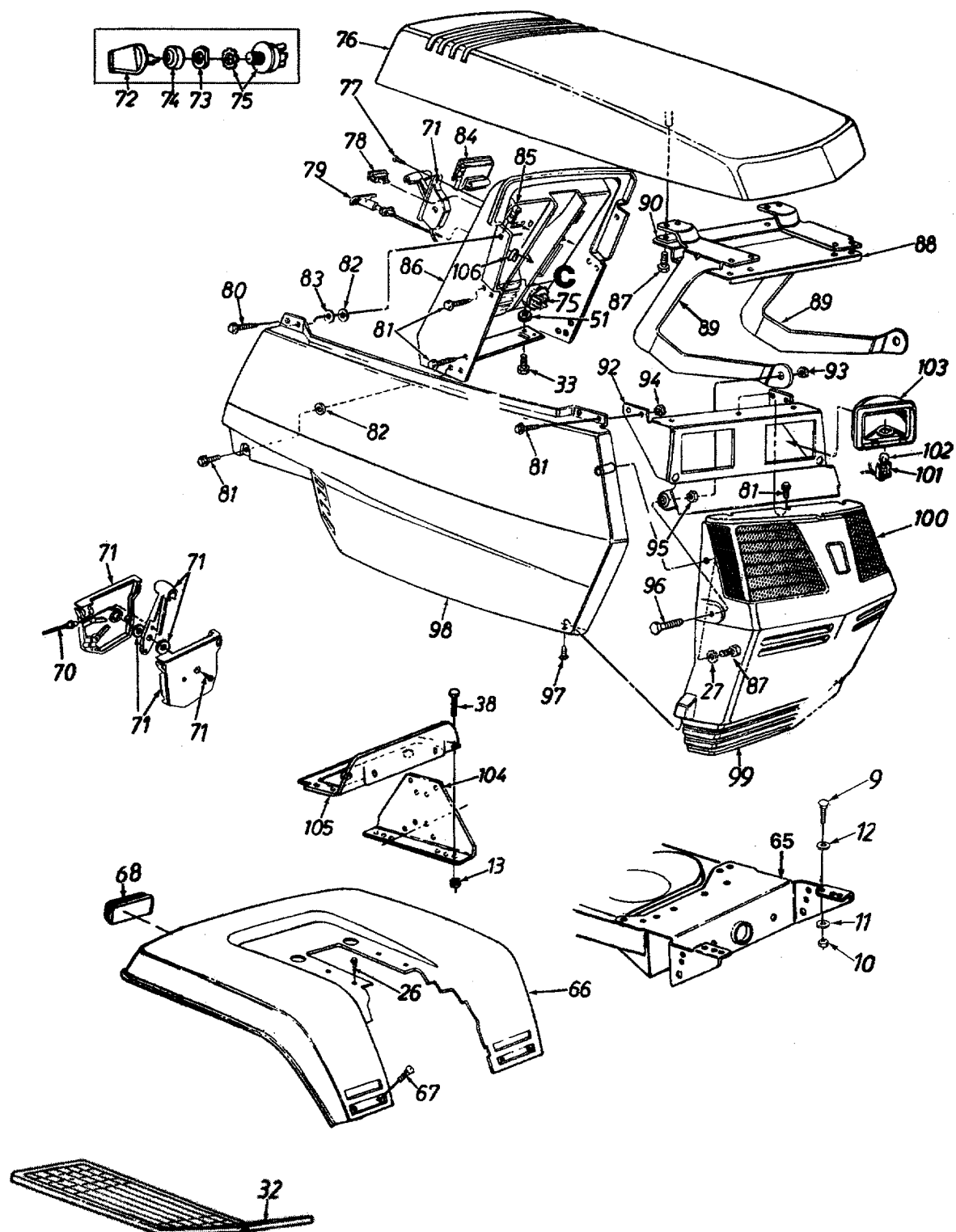
\*Available through your local dealer or from Agri-Fab Inc., 303 W. Raymond Street, Sullivan, Illinois 61951.

## SECTION 13: TROUBLE SHOOTING GUIDE

Trouble	Possible Cause(s)	Corrective Action
Engine will not crank	<p>Safety switch button not depressed. Battery installed incorrectly.</p> <p>Battery is dead or weak. Blown fuse or circuit breaker.</p> <p>Engine ground wire loose.</p>	<p>There are two switches in the starting circuit of your unit: the clutch pedal switch and the deck lift lever switch. Make certain the actuator is fully depressing the buttons on each switch.</p> <p>The battery must be installed with negative terminal attached to black ground wire. Negative terminal is identified at the post by "NEG", "N" or "-". The positive terminal, identified by "POS", "P" or "+", must be attached to the big red wire which goes to the solenoid. All batteries are to be fully charged before installing. Refer to "Quick Start" battery guide that came with the operator's manual.</p> <p>Check fluid level in battery. If fluid is low, fill to just below split rings with water. Charge with 6 AMP charger until fully charged.</p> <p>Refer to operator's manual for fuse box location. Replace fuse with automotive type fuse. Fuses seldom fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged.</p> <p>Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.</p> <p>Engine should have a black ground wire running from engine to frame or mounting bolt.</p>
Engine cranks but will not start	<p>Throttle or choke not in starting position. No fuel to the carburetor.</p> <p>No spark to spark plug.</p> <p>Dirty air cleaner.</p>	<p>Check operator's manual for correct position for throttle control and choke for starting.</p> <p>Gasoline tank empty. Fill.</p> <p>Fuel line or in-line fuel filter plugged. Remove and clean fuel line. Replace filter if necessary.</p> <p>Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer.</p> <p>Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.</p> <p>If the air cleaner is dirty, the engine may not start. Refer to the engine manual packed with your unit.</p>
Engine smokes	<p>Engine oil has been overfilled. Engine loses crankcase vacuum.</p>	<p>Check oil level.</p> <p>Dipstick not seated or broken. Replace defective part.</p> <p>Engine breather defective. Replace.</p>
Excessive vibration	<p>Bent or damaged blade. Bent blade.</p>	<p>Stop engine immediately. Check all pulleys, blade adapters, keys and bolts for tightness and spindle damage. Tighten or replace any damaged parts.</p> <p>Stop engine immediately. Replace damaged blade. Only use original equipment blades.</p>
Mower will not discharge grass or leaves uncut strips	<p>Engine speed low. Speed selection. Cutting height set too low. Blades short or dull.</p>	<p>Throttle must be set at full throttle.</p> <p>Use lower ground speed. The slower your ground speed, the better the quality of cut. Raise deck.</p> <p>Sharpen or replace blades (uncut strip problem only).</p>

If the above steps fail to correct the problem, take the unit to your local authorized service dealer for repair.

# Model 694



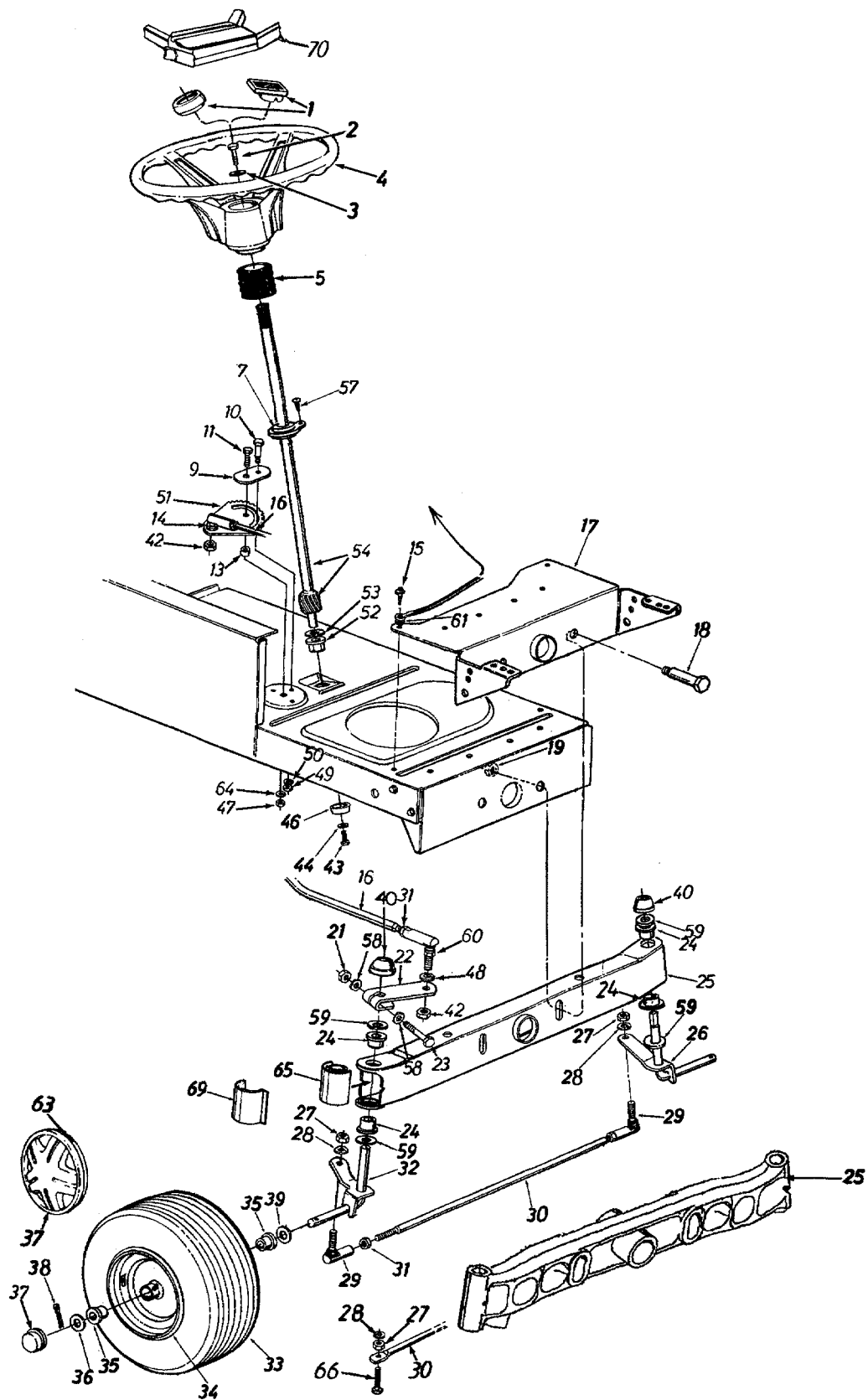


# Model 694

EF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
9	710-3008		Hex Bolt 5/16-18 x .75" Lg. (Gr.5)	80	710-0642		Hex Wash. Hd. Tap Scr. 1/4 x .75" Lg.
10	712-3010		Hex Nut 5/16-18 Thd. (Gr.5)	81	710-0599		Hex Tap Scr. 1/4-20 x .5" Lg.
11	736-0119		L-Wash. 5/16" I.D.	82	726-0233		Push Nut Fastener
12	736-3078		Fl-Wash. .34" I.D. x 1" O.D.	83	736-0176		Fl-Wash. .27" I.D. x .948"
13	712-0271		Hex Sems Nut 1/4-20 Thd.	84	725-0925		Ammeter
26	710-0726		Hex Wash. Hd. AB-Tap Scr. 5/16 x .75" Lg.	85	712-0185		Speed Nut 1/4-20 Thd.
27	736-0142		Fl-Wash. .218" I.D. x .5" O.D.	86	731-0961A		Dash Panel
32	731-0911		Rubber Foot Pad-L.H. (Optional)	87	710-1005		Hex Wash. Hd. B-Tap Scr. 1/4 x .75" Lg.
	731-0912		Rubber Foot Pad-R.H. (Optional)	88	783-0121		Hood Reinforcement
33	710-3008		Hex Bolt 5/16-18 x .75" Lg.*	89	783-0123A	N	Hood Hinge
38	710-0751		Hex Bolt 1/4-20 x .62" Lg.*	90	17762		Hood Reinforcement Spacer
51	712-0265		Hex Sems Nut 5/16-18 Thd.	92	17223		Light Bracket
35	783-0041A		Pivot Bar Brkt.	93	712-0158		Hex L-Nut 5/16-18 Thd.
36	783-0350		Fender	94	712-0107		Hex L-Nut 1/4-20 Thd.
37	710-0167		Carriage Bolt 1/4-20 x .62" Lg.	95	712-3007		Hex Jam Nut 5/16-18 Thd.
38	725-3000		Reflector (Optional)	96	710-0874		Hex Bolt 5/16-18 x 7/8" Lg.
70	746-0776		Throttle Wire 18.5" Lg.	97	710-0351		Truss Mach. B-Tap Scr. #10 x .5" Lg.
	746-0634		Throttle Wire 35" Lg.	98	731-1434		Side Cover-R.H.
	746-0636		Throttle Wire 28" Lg.		731-1435		Side Cover-L.H. (Not Shown)
	746-0630A	N	Throttle Wire 39" Lg.	99	731-1442A		Grille
71	831-0823A		Throttle Control Box Ass'y.	100	731-0949		Lens-L.H.
72	725-1341B		Ignition Key		731-0948		Lens-R.H.
73	725-1346		Ignition Switch Nut	101	725-1650		Twist Lock-Lamp Socket
74	725-1347		Ignition Switch Cap	102	725-0963		Lamp
75	725-1396		Ignition Switch	103	731-0705		Headlight Housing
76	731-1433		Hood	104	17300D		Dash Support Brkt.
77	710-0779A		Truss Mach. AB-Tap Scr. #10 x .5" Lg.	105	17633A		Support Brkt.
78	725-0634		Light Switch	106	17782		Choke Retainer
79	746-3021		Choke Control 29" Lg.	—	629-0309		Headlight Harness (Not Shown)
	746-0614A		Choke Control 38" Lg.	—	783-0625	N	Hood Mtg. Heat Shield (Not Shown)†

Intek Engine Only.

# Model 694



# Model 694

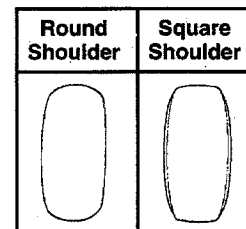
EF O.	PART NO.	CODE	DESCRIPTION	REF NO.	PART NO.	CODE	DESCRIPTION
1	731-0220 731-1459A 731-1460	N	Steering Wheel Cap Steering Wheel Cap (Sq.—MTD) Steering Wheel Cap (Square—No Logo)	29 30 31	723-3018 747-0753 747-0861 712-0711		Ball Joint 3/8-24 Thd. Tie Rod (Adjustable) Tie Rod (Non-Adjustable) Hex Jam Nut 3/8-24 Thd.*
2	710-0643		Hex Bolt 5/16-18 x 1" Lg.	32	**		Front Axle Ass'y.—R.H.
3	736-0242		Belleville Wash. .345" I.D.	33	**		Wheel Ass'y. Comp.
4	731-1693		Steering Wheel (3 Spoke)†	34	**		Front Wheel Rim Only
	731-1687		Steering Wheel (3 Spoke)††	35	**		Bearing
	631-0027		Steering Wheel (4 Spoke)	36	736-0285		Fl-Wash. .635 I.D. x 1.59" O.D.
5	731-0559A 731-0954		Steering Bellow—4.5" (Style A) Steering Bellow—9" (Style 0, 1, 3, 4, 5, 6, 8, 9)	37	731-0484A 731-1787A 734-1613A 734-1612A		Front Wheel Hub Cap Spoked Hub Cap (Yellow—Opt.) Spoked Hub Cap (Gray—Opt.) Spoked Hub Cap (Beige—Opt.)
	731-1542		Steering Bellow—3.25" (Style 7)				Cotter Pin 1/8" Dia. x 1.25"
6	712-0240		Hex Jam Nut 7/16-20 Thd.	38	714-0470		Fl-Wash. .640" I.D. x 1.24" O.D.
7	741-0587		Flange Bearing .628" I.D. x 1.36 O.D. (Style A)	39 40	736-0531 726-0214		Push Cap 5/8" Dia. Rod
8	723-0448		Ball Joint 7/16-20 Thd.	42	712-0262		Hex Jam Nut 3/8-24 Thd.
9	17198A		Retainer Plate	43	710-1309		Hex Patch Bolt 5/16-18 x .62"
10	738-0141		Shoulder Bolt .437" Dia. x 5/16-18 Thd.	46 47	748-0389 712-0214		Cap Hex Cent. L-Nut 3/8-24 Thd.
11	710-1039		Hex Bolt 3/8-24 x 1.0" Lg. (Gr. 8)	48	736-0169		L-Wash. 3/8" I.D.*
13	750-0535		Spacer .380" I.D. x .625" O.D.x .227	49 50	712-0158 736-0119		Hex Cent. L-Nut 5/16-18 Thd. L-Wash. 5/16" I.D.*
14	736-0217		L-Wash. 3/8" I.D. (H.D.)	51	717-0622A		Steering Gear Segment
15	710-0726		Hex Wash. Hd. Self-Tap Scr.	52	741-0656		Hex Flg. Brg. .634 I.D.
16	711-1107		Steering Drag Link	53	736-0187		Fl-Wash. (Hardened)
17	783-0041B		Front Pivot Brkt.	54	738-0919		Steering Shaft
18	738-0527		Shoulder Bolt .498" Dia. x 2.04Lg. 3/8-16 Thd.	57	710-0837		Oval Hd. Cr.—Sunk Scr.#10 x 5/8" Lg. (Style A)
19	712-0431		Flanged L- Nut 3/8-16 Thd.*	58	736-0271		Wave-Wash. .32" I.D. x .62" O.D.
21	712-0411		Hex L-Nut 5/16-24 Thd.	59	736-0187		Fl-Wash. (Hardened)
22	16481A		Steering Arm Front Axle	60	723-0448		Drag Link Ball Joint 7/16-20 Thd.
23	710-0772		Hex Bolt 5/16-24 x 2.00" Lg. (Gr.5)	63	727-0425A		Spring Clip (Used w/SpokedHub Cap)
24	741-0659		Hex Flg. Brg. .632 I.D.				Bell-Wash. .39" I.D. x 1.38" O.D.
25	683-0128 719-0342 737-3000		Pivot Bar Ass'y. (Steel) Pivot Bar Ass'y. (Cast Iron) Grease Fitting (Cast Iron)	64 65 66	736-0356 731-1291A 710-0459		Pivot Bar End Cap (Optional) Hex Bolt 3/8-24 x 1.5" Lg. (Gr. 5)
26	**		Front Axle Ass'y.—L.H.	69	731-1649		Axle Cap
27	712-0241		Hex Nut 3/8-24 Thd.*	70	731-0955		Steering Wheel Insert (Optional)
28	736-0169		L-Wash. 3/8" I.D.*				

Uses Round Steering Wheel Cap

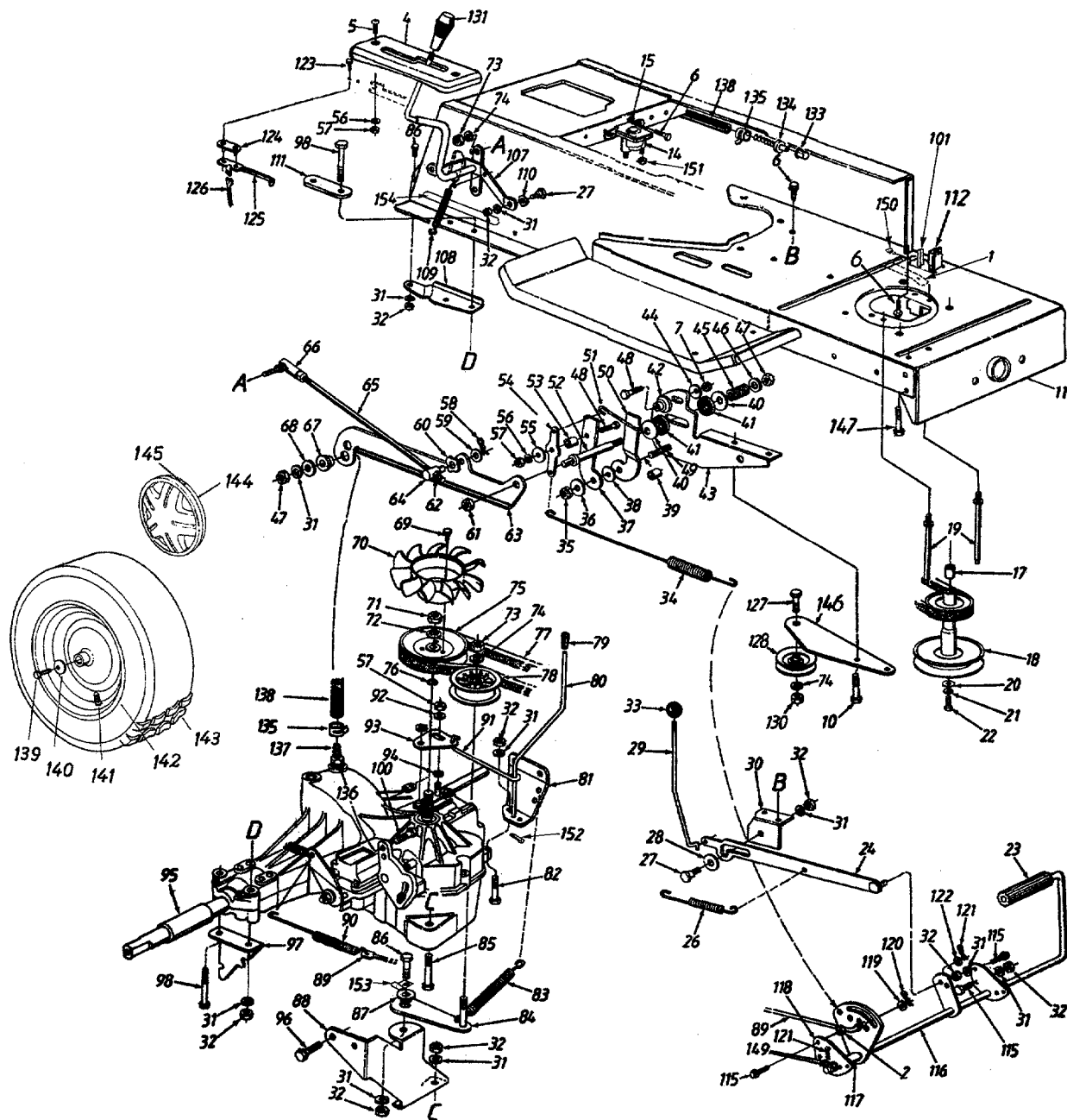
† Uses Square Steering Wheel Cap

## \*\* FRONT WHEEL CHART

Description	15" x 6" (Round Shoulder)	15" x 6" (Square Shoulder)
Wheel Ass'y. Comp.	634-0056	634-0105
Tire Only	734-0864	734-1731
Rim Only	634-0024	634-0024
Bearing	741-0487A	741-0487A
Air Valve	734-0255	734-0255
Grease Fitting (Optional)	737-0211A	737-0211A
Grease Plug	737-0212A	737-0212A
Front Axle Ass'y.—L.H.	683-0127	683-0127
Front Axle Ass'y.—R.H.	683-0126	683-0126
Front Axle Ass'y.—L.H. (46" Deck)	683-0124	683-0124
Front Axle Ass'y.—R.H. (46" Deck)	683-0125	683-0125

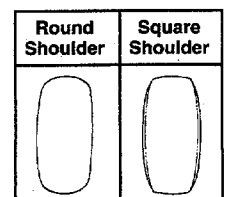


# Model 694



**\*\* REAR WHEEL CHART**

Description	20" x 8" (Round Shoulder)	20" x 8" (Square Shoulder)
Wheel Ass'y. Comp.	734-1675	634-0104
Tire Only	734-1596	734-1730
Rim Only	634-0070	634-0070



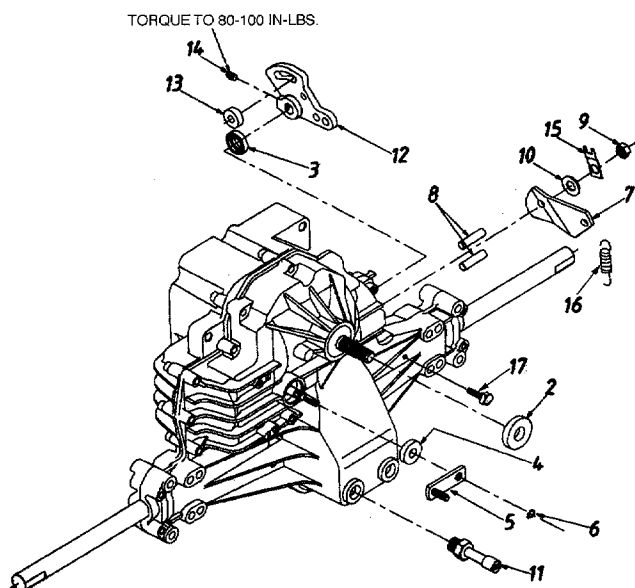
# Model 694

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	732-0750A		Spring Switch	51	747-0887		Neutral Return Rod
2	712-0265		Hex Sems Nut 5/16-18 Thd.	52	738-0879		Friction Disc Stud
4	731-1734		Index Bracket	53	748-0368		Shld. Spacer
5	710-0924		Pan Hd. Mach. Scr. 1/4-20 x .75"	54	783-0096		Neutral Return Lever
6	710-0599		Hex Wash. Hd. TT-Tap Scr.	55	736-3092		FI-Wash. .265" I.D. x 1" O.D.
7	712-0138		Hex Nut 1/4-28 Thd.	56	736-0329		L-Wash. 1/4" I.D.*
8	736-0329		L-Wash. 1/4" I.D.*	57	712-0287		Hex Nut 1/4-20 Thd.*
10	710-0195		Hex. Bolt 1/4-28 x .62" Lg.	58	714-0104		Hairpin Clip
11	783-0310C		Lower Frame Ass'y.	59	736-0262		FI-Wash. .375" I.D. x .87" O.D.
14	725-1426		Solenoid	60	736-0413		Spring Wash. .39" I.D.
15	736-0222		Ext. L-Wash. 1/4" I.D.	61	712-0116		Hex L-Nut 3/8-24 Thd.
17	750-0956		Spacer	62	712-0711		Hex Jam Nut 3/8-24 Thd.
18	756-0983		Engine Pulley	63	783-0090A		Neutral Return Brkt.
19	711-1044		Belt Guard Stud 4.75" Lg.	64	711-0832		Ferrule 3/8-24 Thd.
20	736-0322		FI-Wash. 7/16" I.D. x 1.25" O.D.	65	747-0365		Control Rod
21	736-0171		L-Wash. 7/16" I.D.*	66	723-0351		Ball Joint 3/8-24 Thd.
22	710-3029		Hex Bolt 7/16-20 x 1.25" Lg.	67	748-0234		Shld. Spacer .5" Dia. x .27" Lg.
23	735-0196		Foot Pad	68	736-0159		FI-Wash. .349" I.D. x .879" O.D.
24	683-0049		Brake Lockout Brkt. Ass'y.	69	710-1189		Hex Tap Scr. #12 x .62" Lg.
26	732-0728		Foot Pedal Return Spring	70	731-1449A	N	Fan
27	738-0296		Shld. Bolt .437" Dia. x .268"	71	712-0333		Hex Nut 1/2-20 Thd.
28	736-0406		FI-Wash. 7/16" I.D. x 1-3/8" O.D.	72	736-0921		L-Wash. 1/2" I.D.*
29	747-0608A		Lock-up Rod	73	712-0241		Hex Nut 3/8-24 Thd.
30	17755A		Bracket	74	736-0169		L-Wash. 3/8" I.D.
31	736-0119		L-Wash. 5/16" I.D.*	75	756-0975		Transmission Pulley
32	712-0267		Hex Nut 5/16-18 Thd.*	76	732-0729		Wire Ring
33	720-0166		Ball Knob	77	754-0349		V-Belt
34	732-0727		Neutral Return Spring	78	756-0981		FI-Idler Pulley 2.75" O.D.
35	712-0273		Hex Nut 5/16-24 Thd.	79	720-0238		Rod End Grip
36	736-3078		FI-Wash. .344" I.D. x 1" O.D.	80	747-0894		Bypass Control Lever
37	783-0092		Scissor-Flat	81	783-0085		Transaxle Support Brkt.—L.H.
38	736-0362		FI-Wash. .33" I.D. x 1.25" O.D.	82	710-0528		Hex Bolt 5/16-18 x 1.25" Lg.
39	750-0808		Spacer	83	732-0384		Ext. Spring 6.12
40	736-0219		Bell-Wash. .4" I.D. x 1.13" O.D.	84	683-0051		Idler Brkt. Ass'y.
41	761-0196		Friction Washer	85	710-0116		Hex Bolt 5/16-18 x 2.5" Lg.*
42	750-0918		Centering Gauge Spacer	86	710-3008		Hex Bolt 5/16-18 x .75" Lg.*
43	783-0095		Neutral Return Mtg. Brkt.	87	748-0234		Shld. Spacer .5" Dia. x .27" Lg.
44	736-0270		Bell-Wash. .265" I.D. x .75" O.D.	88	783-0086A		Transaxle Support Brkt.—R.H.
45	732-0718		Comp. Spring 1.19" Lg.	89	747-0886		Brake Rod 24.94" Lg.
46	736-3092		FI-Wash. .26" I.D. x .72" O.D.	90	732-0716		Ext. Spring
47	712-0123		Hex Nut 5/16-24 Thd.	91	747-0893		Bypass Actuator Rod
48	710-0299		Hex Bolt 1/4-28 x 1" Lg. (Gr. 5)	92	736-0142		FI-Wash. .281" I.D. x .5" O.D.
49	710-1012		Rib Neck Bolt 5/16-24 x .84" Lg.	93	783-0098		Bypass Adjustment Brkt.
50	783-0093		Scissor-Offset	94	736-0222		External L-Wash. 1/4" I.D.

Ref. 149 736-0169  
 Ref. 150 still to come  
 Ref. 151 712-0271  
 Ref. 152 714-0127  
 Ref. 153 726-0272  
 Ref. 154 783-0122

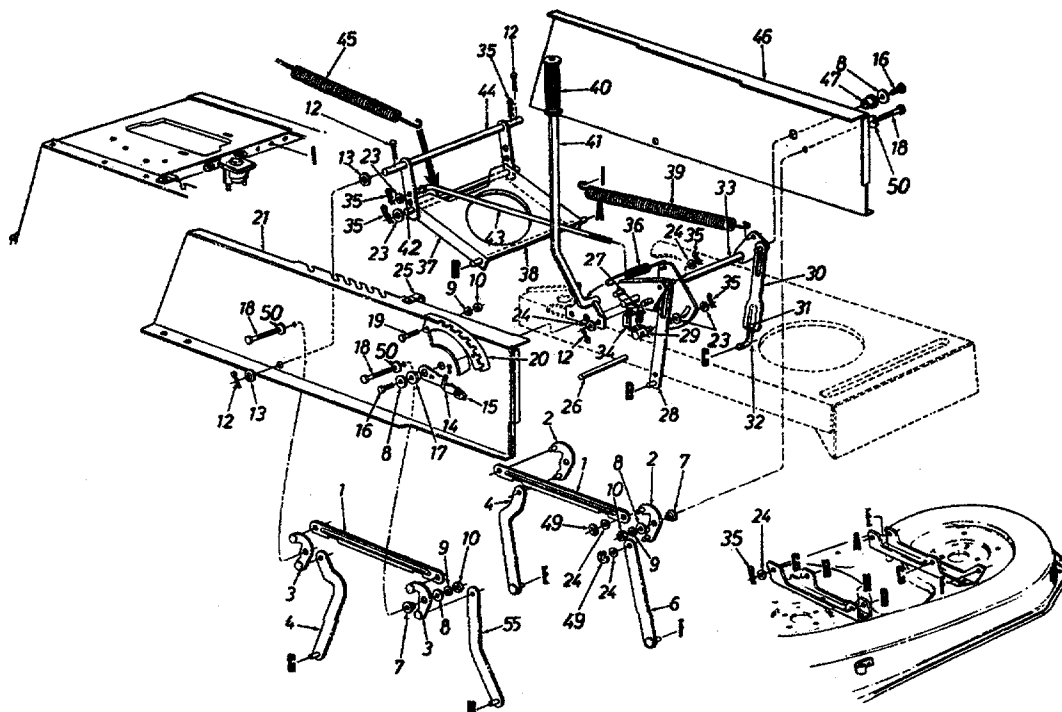
# Model 694

REF NO.	PART NO.	QTY.	DESCRIPTION	REF NO.	PART NO.	QTY.	DESCRIPTION
95	731-1086A		Sleeve .758" I.D. x 1" O.D.	126	725-1399		Extension Wire
96	710-0604		Hex. TT-Tap Scr. 5/16-18 x .62"	127	710-0520		Hex Bolt 3/8-16 x 1.5" Lg.
97	17994		Retainer Brkt.-Transaxle	128	756-0116		Idler Pulley
98	710-0176		Hex Bolt 5/16-18 x 2.75" Lg.	129	736-0280		FI-Wash. .39" I.D.
	710-3195		Hex Bolt 5/16-18 x 4.5" Lg. (Used w/46" Deck)	130	712-0798		Hex Nut 3/8-16 Thd.*
99	732-0250		Tension Spring	131	631-0009		Shift Knob
100	710-0888		Hex Bolt 5/16-24 x 1" Lg.	133	731-1481		Vent Cap
101	710-0224		Hex Wash. Hd. AB-Tap Scr.	134	731-1480		Plastic Vent
107	647-0008A		Speed Control Lever Ass'y.	135	726-0324		Clamp
108	17668		Axle Support Brkt.-R.H.	136	721-0330		O-Ring
	17669		Axle Support Brkt.-L.H.	137	731-1485		Hose Fitting
109	732-0433		Ext. Spring 2.75" Lg.	138	751-0588-18		Fuel Line 18" Lg.
110	736-0141		Spr-Wash. .445" I.D. x .75" O.D.	139	710-0627		Hex Bolt 5/16-24 x .75" Lg.
111	17840		Transaxle Mtg. Brkt.	140	736-0242		Bell-Wash. .345" I.D. x .88" O.D.
112	725-1657A		Safety Switch (Clutch)	141	734-0255		Air Valve
115	710-1238		Hex TT-Tap Scr. 5/16-18 x 7/8"	142	**		Rim Only
116	683-0123		Clutch/Brake Pedal Ass'y.	143	**		Wheel Ass'y. Comp.
117	750-0802		Spacer .63" I.D.		**		Tire Only
118	17860		Pedal Bracket	144	734-1615A		Hub Cap (Gray-Optional)
119	736-3008		FI-Wash. .344" I.D. x .75" O.D.		734-1614A		Hub Cap (Beige-Optional)
120	714-0111		Cotter Pin 3/32" Dia.		734-1788A		Hub Cap (Yellow-Optional)
121	714-0470		Cotter Pin 1/8" Dia.	145	727-0425A		Spring Clip
122	736-0140		FI-Wash. .385" I.D. x .62" O.D.	146	783-0099		Idler Bracket
123	710-0227		Hex AB-Tap Scr. #8 x .5" Lg.	147	710-1315		Hex TT-Tap Scr. 3/8-16 x 1.25"
124	726-0320		Insulator Nut Plate	148	750-0258		Spacer .32" I.D. x .75" O.D. (Used w/46" Deck)
125	725-1713		Reverse Safety Switch				



REF NO.	PART NO.	QTY.	DESCRIPTION
1	718-0255A		Transmission Comp.
2	HG-9008000-0128	1	Seal-Lip
3	HG-9008000-0126	1	Seal-Lip
4	HG-45074	1	Seal-Lip 10X25X7
5	HG-50126	1	Arm-Bypass
6	HG-44870	1	Ring-Retaining
7	HG-44094	1	Arm-Actuating
8	HG-44891	2	Pin-Actuating
9	HG-50108	1	Nut-Hex Lock 5/16-24
10	HG-44130	1	Washer 7/16" x 7/8" x .06"
11	HG-50042	1	Breather Ass'y.
12	HG-45007	1	Arm-Control
13	HG-50034	1	Puck-Dampener
14	HG-50018	1	Set Screw
15	HG-50129	1	Strap, Locking
16	HG-50384	1	Ext. Spring
17	HG-50653	1	Self Tapping Scr. #10-32

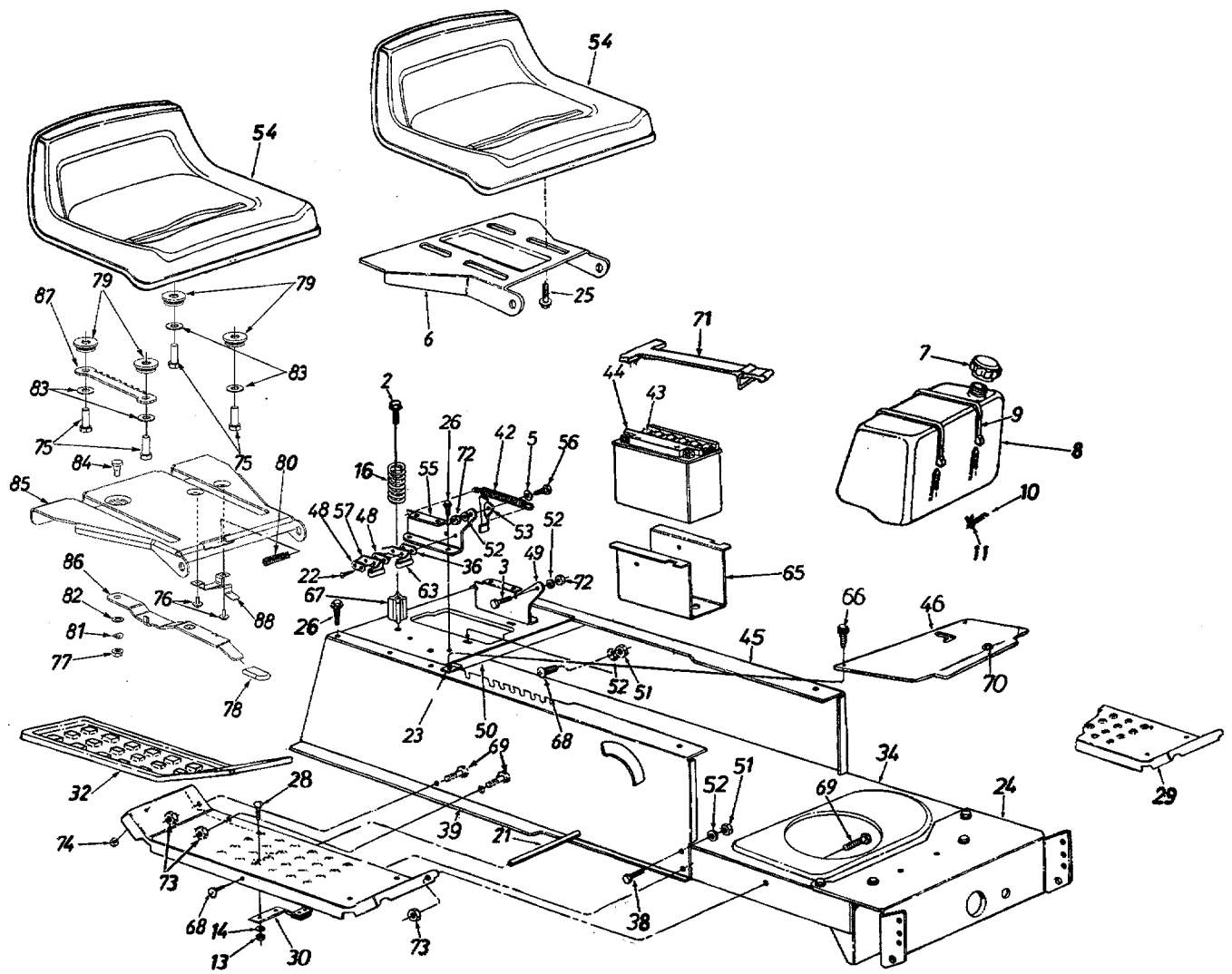
# Model 694



REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	783-0103		Connecting Rod	26	738-0526		Running Board Rod
2	683-0029A		Pivot Link Ass'y.—L.H.	27	710-3007		Hex Wash. Hd. Tap Scr.
3	683-0028A		Pivot Link Ass'y.—R.H.	28	14802A		Link Deck Lift Ass'y.
4	17710		Deck Hanger Link Ass'y.	29	711-0723A		Adj. Ferrule 3/8-24 Thd.
5	14800A		Deck Hanger Link Ass'y.	30	17712		Adj. Deck Lift Link
6	14804A		Deck Hanger Link Ass'y.	31	712-3066		Hex Nut 1/2-20 Thd. (Gr. 5)
7	748-0331		Shld. Spacer .318" I.D.	32	711-0841		Lift Link Adjuster
8	736-0264		FI-Wash. .344" I.D. x .62" O.D.	33	17637A		Lift Shaft Ass'y.
9	736-0119		L-Wash. 5/16" I.D.*	34	725-1657A		Safety Switch (Deck)
10	712-3010		Hex Nut 5/16-18 Thd. (Gr. 5)	35	714-0145		Inter. Cotter Pin 3/8" Dia.
12	714-0470		Cotter Pin 1/8" Dia.	36	732-0637		Extension Spring
13	736-0256		FI-Wash. .635" I.D. x 1.0" O.D.	37	17636C	N	Stabilizer Bracket
14	683-0003		Height Adj. Stop Lever Ass'y. (Incl. Ref. 15)†	38	738-0670		Shaft 1/2" Dia. x 10.28" Lg.
15	08540		Knob†	39	732-0638		Extension Spring
16	710-0604		Hex Wash. TT-Tap Scr. 5/16-18 x .75" Lg.	40	720-0233		Grip (Lift Handle)
17	748-0176		Flange Brg. .63" I.D.†	41	97675A		Deck Lift Handle Ass'y.
18	710-1238		Hex Wash. Hd. Scr. 5/16-18 x .875"	42	738-0669		Shaft 3/8" Dia. x 9.34" Lg.
19	710-3008		Hex Bolt 5/16-18 x .75" Lg.	43	747-0598		Disengagement Rod
20	17730		Index Brkt.	44	97624		Stabilizer Shaft Ass'y.
21	783-0042A		Upper Frame—R.H.	45	732-0556		Extension Spring 7.58" Lg.
23	736-0267		FI-Wash. .385" I.D. x .87" O.D.	46	783-0043		Upper Frame—L.H.
24	736-0160		FI-Wash. .531" I.D. x .93" O.D.	47	741-0313		Flange Brg. .632" I.D.
25	726-0272		Clamp	48	17128A		Spring Retainer Brkt.
				49	716-0104		"E"-Ring
				50	736-0425		Bell-Wash. .325" I.D.

Optional

# Model 694



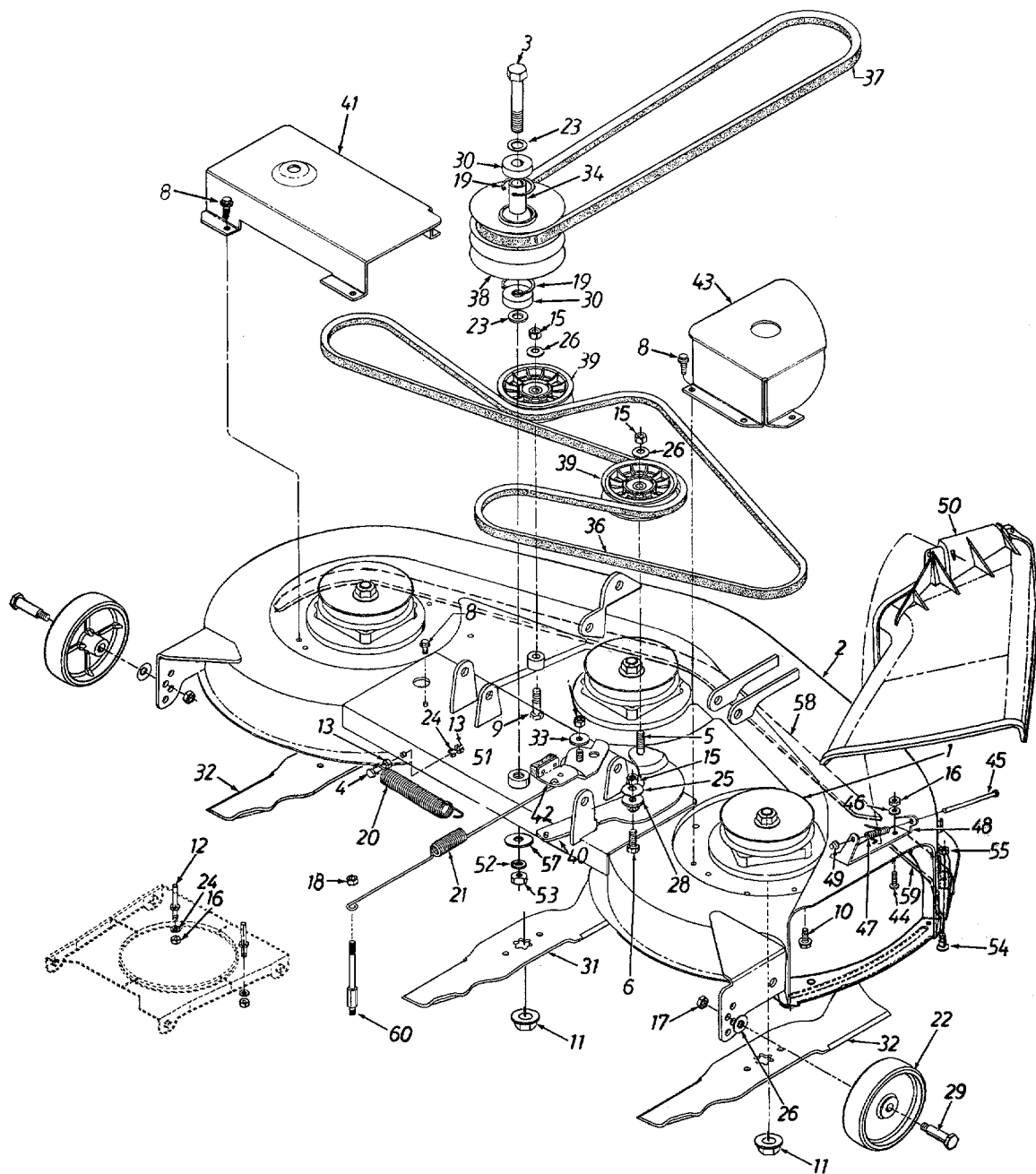


# Model 694

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
2	710-1208		Hex Tap Scr. 5/16-18 x 3.25"	54	757-0363A	N	Seat 8-7/8" High
6	783-0039A		Seat Pivot Bracket		757-0364A	N	Seat 8-7/8" High (Yellow)
7	751-0603		Fuel Cap		757-0360A	N	Seat 10-5/8" High
8	751-0553		Fuel Tank (1.25 Gal.)		757-0365		Seat 10-5/8" High (Yellow)
	751-0555		Fuel Tank (1.5 Gal.)		757-0348A	N	Seat 14-1/4" High
	751-0657	N	Fuel Tank (3 Gal.)		757-0372		Seat 14-1/4" High (Yellow)
9	726-0209		Tie Strap		757-0350		Seat 14-1/4" High w/ Drain holes
10	751-0535-15		Fuel Line	55	17950		Seat Pivot Brkt. Support—R.H.
11	726-0205		Hose Clamp	56	738-0296		Shld. Bolt .437" Dia. x .268"
13	712-0287		Hex Nut 1/4-20 Thd.*	57	725-1303		Spring Switch (Seat—Outer)
14	736-0329		L-Wash. 1/4" I.D.	59	710-0650		Hex TT-Tap Scr. 5/16-18 x 7/8"
16	732-0735		Compression Spring	63	725-1439		Safety Switch (Seat—Inner)
21	738-0526		Running Board Rod	65	783-0345		Battery Tray
22	710-0227		Hex AB-Tap Scr. #8 x .50" Lg.	66	710-0351		Truss Mach. B-Tap Scr.#10 x .5" Lg.
23	726-0139		Speed Nut #10Z				Spring Spacer
24	783-0041A		Front Pivot Brkt.	67	748-0347		Truss Mach. Scr. 5/16-18 x .75"
25	710-0870		Hex Tap Scr. 3/8-16 x .62" Lg.	68	710-0323		Hex Bolt 5/16-18 x .75" Lg.*
26	710-0726		Hex Wash. Hd. AB-Tap Scr.5/16 x .75" Lg.	69	710-3008		Snap Bushing
				70	731-0405		Battery Retainer Strap
28	710-0134		Carriage Bolt 1/4-20 x .62"	71	723-3064		Hex Nut 5/16-18 Thd.
29	17770C	N	Running Board (R.H. & L.H.)	72	712-3010		Hex Sems Nut 5/16-18 Thd.
30	761-0168B	N	Blade Brake Ass'y.	73	712-0265		Hex Sems Nut 1/4-20 Thd.
32	731-0909		Rubber Foot Pad—L.H.**	74	712-0271		Hex Bolt 3/8-16 x 1" Lg. **
	731-0910		Rubber Foot Pad—R.H.**	75	710-0514		Hex Wash. Hd. B-Tap Scr. #10-16 x .38" Lg. **
	723-0422		Abrasive Foot Pad**	76	710-1268		Hex Flanged L-Nut 1/4-20 Thd. **
34	783-0310C		Lower Frame				Seat Adjustable Grip **
36	726-0278		Insulator Boss Plate	77	712-3027		Spacer **
37	736-0264		FI-Wash. .344" I.D. x .625" O.D.	78	720-0309		Compression Spring 1.5" Lg. **
38	710-3008		Hex Bolt 5/16-18 x .75" Lg.*	79	731-1924	N	Spring Wash. .265" I.D. x .56" O.D. **
39	783-0042A		Upper Frame—R.H.	80	732-0499		FI-Wash. .344" I.D. x .62" O.D. **
42	732-0581B		Extension Spring 5.31" Lg.	81	736-0175		FI-Wash. .406" I.D. x .875" O.D. **
44	725-1707C	N	12-V Battery				Shld. Bolt .34" x 1/4 -20 Thd. **
45	783-0043		Upper Frame—L.H.	82	736-0204		Seat Pivot Bracket **
46	783-0133B		Shift Cover	83	736-0300		Seat Lever **
48	726-0279		Insulator Plate	84	738-0137A		Seat Selector **
49	17951		Seat Pivot Brkt. Support—L.H.	85	783-0607	N	Seat Stop **
50	783-0355A		Hitch Plate	86	783-0609	N	
51	712-0267		Hex Nut 5/16-18 Thd.*	87	783-0610	N	
52	736-0119		L-Wash. 5/16" I.D.*	88	783-0611	N	
53	17239A		Seat Lift Brkt.				

\*\* Optional

# DECK "H" (46")



# DECK "H" (46")

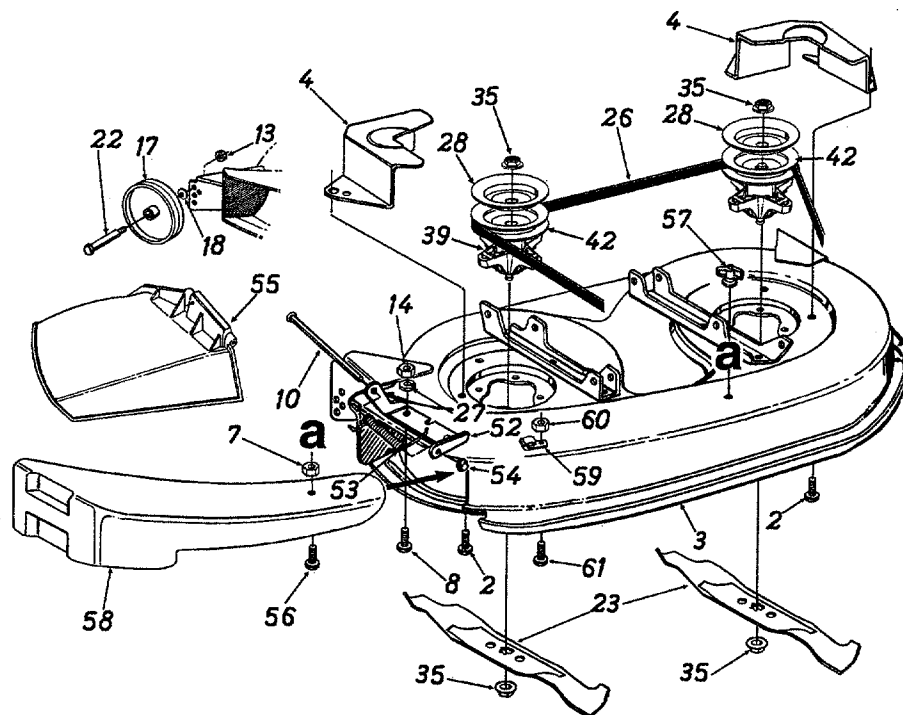
Ref. No.	Part No.	Code	Description	Ref. No.	Part No.	Code	Description
1	618-0240	N	Blade Spindle Ass'y.	30	741-0524		Ball Brg. .625" I.D. x 1.574" O.D. x
2	983-0120	N	46" Deck Ass'y. **	31	742-0645	N	Blade 14.88" Lg.
	913-06921		46" Deck Ass'y. Comp. (For Service) **	32	742-0644	N	Blade 16.28" Lg.
3	710-3151		Hex Bolt 5/8-18 x 4.25" Lg.	33	748-0234		Shoulder Spacer
4	710-0428		Hex Bolt 1/4-28 x 1.25" Lg.	34	750-0932A		Spacer .635" I.D. x .088" O.D.
5	710-0459		Hex Bolt 3/8-24 x 1.5" Lg.	36	754-0440		V-Belt
6	710-1039		Hex Bolt 3/8-24 x 1" Lg.	37	754-0439		V-Belt
8	710-0599		Hex Wash. Hd. TT-Tap Scr. 1/4-20 x .5" Lg.	38	756-0638		Pulley Double Deck 5" O.D.
9	710-0151		Hex Bolt 3/8-24 x 2" Lg.	39	756-0627		Flat Idler Pulley 3.5 O.D.
10	710-1260		Hex Flange Bolt 5/16-24 x .75" Lg.	40	783-0046		Idler Deck Bracket
11	712-0417A		Hex Flange L-Nut 5/8-18 Thd.	41	783-0063A		Belt Cover L.H.
12	711-0993		Belt Guard Pin	42	17116		Deck Brake Brkt. Ass'y.
13	712-0138		Hex Nut 1/4-28 Thd.	43	17258A		Belt Cover Brkt. R.H.
14	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	44	710-0751		Hex Bolt 1/4-20 x .62" Lg.
15	712-0241		Hex Nut 3/8-24 Thd.	45	711-0792		Hinge Pin
16	712-3006		Hex Nut 1/4-20 Thd. (Gr. 5)	46	736-0270		Bell-Wash. 1/4" I.D.
17	712-0181		Hex Top Jam Nut 3/8-16 Thd.	47	732-0602		Torsion Spring
18	712-0158		Hex Center L-Nut 5/16-18 Thd.	48	703-1693		Hinge Mtg. Brkt.
19	716-3020		Int. Snap Ring	49	726-0106		Push Nut
20	732-0594A		Ext. Spring .88" O.D. x 6.17"	50	731-1032		Chute Ass'y. Comp. (Incl. Ref. 45, 47, 48, 49, 50)
21	732-0723		Ext. Spring .788" O.D. x 15.5"	51	750-0960		Spacer .635" I.D. x 1" O.D.
22	734-0973		Deck Wheel	52	736-0158		L-Wash. 5/8" I.D.
23	736-0290		Fl-Wash. .635" I.D. x 1" O.D. x .06"	53	712-0337		Hex Nut 5/8-18 Thd.
24	736-0329		L-Wash. 1/4" I.D.*	54	710-0167		Carriage Bolt 1/4-20 x .5" Lg.
25	736-0331		Bell-Wash. 3/8" x 1.125" x .062"	55	712-0271		Hex Sems Nut 1/4-20 Thd.
26	736-0105		Bell-Wash. 3/8" x .87" x .064"	57	736-3088		Fl-Wash. .635" I.D.
28	738-0347		Shoulder Spacer .625" I.D. x .169"	58	783-0141		Center Deck Skirt
29	738-0373		Shld. Bolt .498" x 1.525"	59	783-0142		R.H. Deck Skirt
				60	738-0999	N	Return Spring Stud

†Deck pulleys and blade nuts must be torqued to 100 ft. lbs. if removed or replaced.

†† Optional

\*\* Must be ordered with 4 digit color code.

# DECK "G" (42")



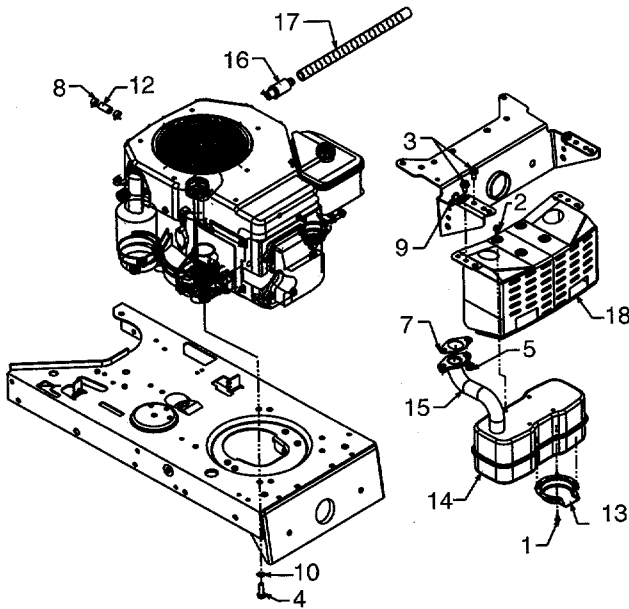
Ref. No.	Part No.	Code	Description	Ref. No.	Part No.	Code	Description
2	710-1260		Hex Wash. Hd. TT-Tap Scr. 5/16-18 x .75" Lg.	33	710-0157		Hex Bolt 5/16-24 x .75" Lg.
3	683-0141 753-0698		42" Deck Ass'y. ** 42" Deck Ass'y. Comp.(For Service Only) **	35	712-0417A		Hex Flange Nut 5/8-18 Thd.†
4	783-0149		Belt Guard Deck	37	736-0158		L-Wash. 5/8" I.D.*
7	712-0291		Hex L-Nut 1/4-20 Thd.††	39	618-0142		Blade Spindle Ass'y. Comp.(Incl. Ref. 28, 35, 42)
8	710-0751		Hex Bolt 1/4-20 x .62"	42	756-0980		5.75" Dia. Pulley†
10	711-0792		Hinge Pin	52	703-1693		Hinge Mtg. Brkt.
13	712-0181		Hex Top L-Nut 3/8-16 Thd.	53	732-0602		Torsion Spring
14	712-3006		Hex Nut 1/4-20 Thd. (Gr. 5)	54	726-0106		Push Nut
17	734-0973		Deck Wheel—5"	55	731-1032		Chute Ass'y. Comp. (Incl. Ref.10, 52, 53, 54, 55)
18	736-0105		Bell-Wash. .40" I.D. x .88" O.D.	56	710-0597		Hex Bolt 1/4-20 x 1" Lg.††
22	738-0373		Shld. Bolt .498" Dia. x 1.53"	57	712-3087		Wing Nut 1/4-20 Thd.††
23	742-0616		3 in 1 Blade	58	731-1643A	N	Mulching Plug††
26	754-0371A		V-Belt	59	16606		Retainer Hook Brkt.
27	736-0270		Bell-Wash. 1/4" I.D.	60	712-0271		Hex Sems Nut 1/4-20 Thd.
28	783-0342		Brake Disc	61	710-0751		Hex Bolt 1/4-20 x .62" Lg.

† Deck pulleys and blade nuts must be torqued to 100 ft. lbs. if removed or replaced.

†† Optional

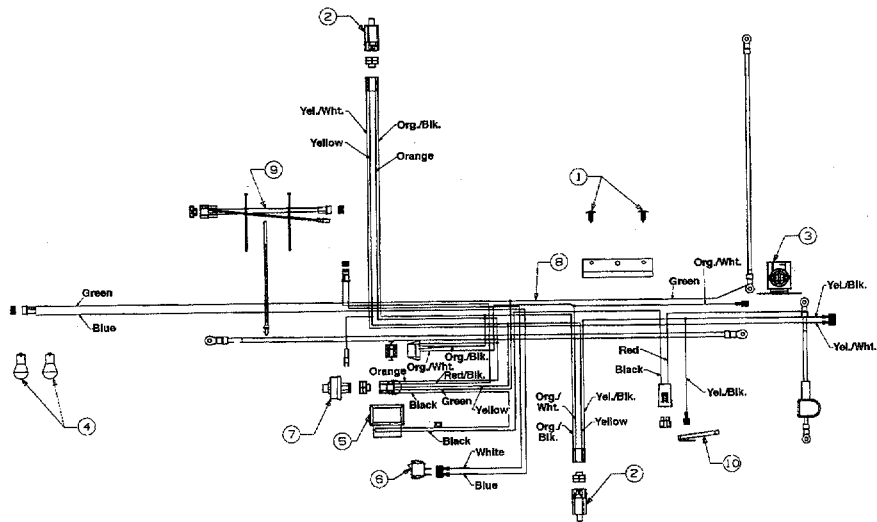
\*\* Must be ordered with 4 digit color code.

# KOHLER



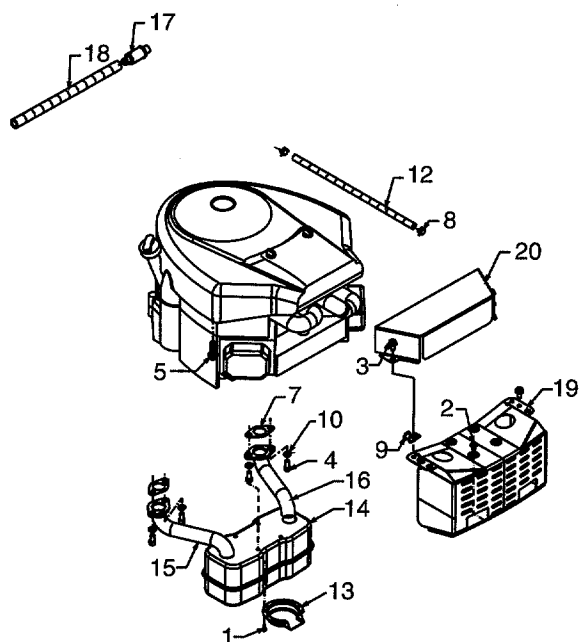
Ref. No.	Part No.	Code	Description
1	710-0148		Hex Tap Scr. #8-32 x .38" Lg.
2	710-0599		Hex Wash. TT-Tap Scr. 1/4-20 x5" Lg.
3	710-0604		Hex Wash. TT-Tap Scr. 5/16-18 x .62" Lg.
4	710-3206A		Hex Bolt M8 x 1.25
5	712-3086		Hex Flange Nut M8 Thd.
7	721-0375		Exhaust Gasket
8	726-0205		Hose Clamp
9	726-0272		Clamp
10	736-0607		External L-Wash. 5/16" I.D.
12	751-0535-12		Fuel Line 12" Lg.
13	751-0564		Muffler Deflector
14	751-0617		Muffler
15	751-0621		Exhaust Pipe
16	751-3140	N	Oil Drain
17	751-3141	N	Oil Drain Hose
18	783-0615	N	Muffler Bracket

# KOHLER



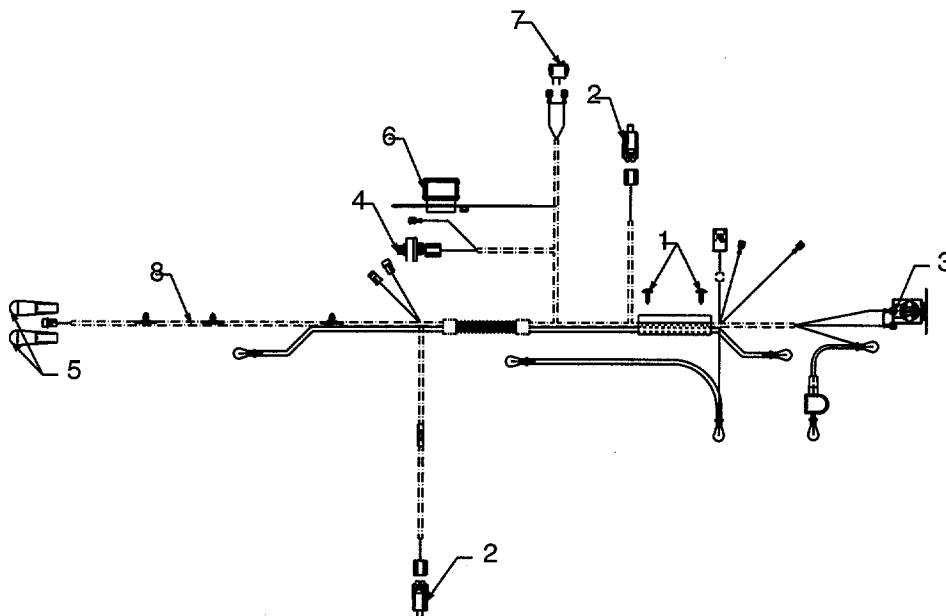
Ref. No.	Part No.	Code	Description	Ref. No.	Part No.	Code	Description
1	726-3046		Ratchet	6	725-0634		Light Switch
2	725-1657A		Safety Switch	7	725-0267		Ignition Switch
3	725-1426		Solenoid	8	629-0303B	N	Wire Harness
4	725-0963		Bulb (Headlight)	9	629-0209		Wire Harness Adapter
5	725-0925		Ammeter	10	629-0132		Wire Harness (Monitor)

## INTEK



Ref. No.	Part No.	Code	Description
1	710-0148		Hex Tap Scr. #8-32 x .38" Lg.
2	710-0599		Hex Wash. TT-Tap Scr. 1/4-20 x5" Lg.
3	710-0604		Hex Wash. TT-Tap Scr. 5/16-18 x .62" Lg.
4	710-1314		Socket Head Scr. 5/16-18 x .62"
5	710-1315		Hex TT-Tap Scr. 3/8-16 x 1.25"
7	721-0460		Exhaust Gasket
8	726-0205		Hose Clamp
9	726-0272		Clamp
10	736-0119		L-Wash. 5/16" I.D.
12	751-0535-12		Fuel Line 12" Lg.
13	751-0564		Muffler Deflector
14	751-0616		Muffler
15	751-0650		Exhaust Pipe-R.H.
16	751-0651		Exhaust Pipe-L.H.
17	751-3140	N	Oil Drain
18	751-3141	N	Oil Drain Hose
19	783-0615	N	Muffler Bracket
20	783-0625	N	Heat Shield

## INTEK



## Intek

Ref. No.	Part No.	Code	Description	Ref. No.	Part No.	Code	Description
1	726-3046		Ratchet	6	725-0925		Ammeter
2	725-1657A		Safety Switch	7	725-0634		Light Switch
3	725-1426		Solenoid	8	629-0305B	N	Wire Harness w/Lt./Amp
4	725-1396		Ignition Switch		629-0306B	N	Wire Harness w/Lt./Amp/Mon.
5	725-0963		Bulb (Headlight)				

# MANUFACTURER'S LIMITED WARRANTY FOR:



For TWO YEARS from the date of retail purchase within the United States of America, its possessions and territories, MTD PRODUCTS INC will, at its option, repair or replace, for the original purchaser, free of charge, any part or parts found to be defective in material or workmanship. This warranty covers units which have been operated and maintained in accordance with the operating instructions furnished with the unit, and which have not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance or alteration.

Normal wear parts or components thereof are subject to separate terms as noted below in the "No Fault Ninety Day Consumer Warranty" clause.

All normal wear part failures will be covered on this product for a period of 90 days regardless of cause. After 90 days, but within the two year period, normal wear parts failures will be covered ONLY IF caused by defects in material or workmanship of OTHER component parts. Normal wear parts are defined as batteries\*, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates and tires.

**How to obtain service:** Warranty service is available, with proof of purchase, through your local authorized service dealer. To locate the dealer in your area, please check the yellow pages or contact the Customer Service Department of MTD PRODUCTS INC, P. O. Box 368022, Cleveland, Ohio 44136-9722.

Phone 1 (800) 800-7310. The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by the Customer Service Department of MTD PRODUCTS INC.

**Transportation charges:** Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser.

**Units exported out of the United States:** MTD PRODUCTS INC does not extend any warranty for

products sold or exported outside of the United States of America, its possessions and territories, except those sold through MTD PRODUCTS INC's authorized channels of export distribution.

## Other Warranties:

1. The engine or component parts thereof carry separate warranties from their manufacturers. Please refer to the applicable manufacturer's warranty on these items.
2. \*Batteries are covered by a 90-day replacement warranty.
3. Log splitter pumps, valves and cylinders or component parts thereof are covered by a one year warranty.
4. All other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose, are hereby expressly disclaimed in their entirety.
5. The provisions as set forth in this warranty provide the sole and exclusive remedy of MTD PRODUCTS INC's obligations arising from the sales of its products. MTD PRODUCTS INC will not be liable for incidental or consequential loss or damage.

**How state law relates to this warranty:** This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Certain disclaimers are not allowed in some states and therefore they may not apply to you under all circumstances.

**NOTE:** This warranty does not cover routine maintenance items such as lubricants, filters, blade sharpening and tune-ups, or adjustments such as brake adjustments, clutch adjustments or deck adjustments. Nor does this warranty cover normal deterioration of the exterior finish due to use or exposure.